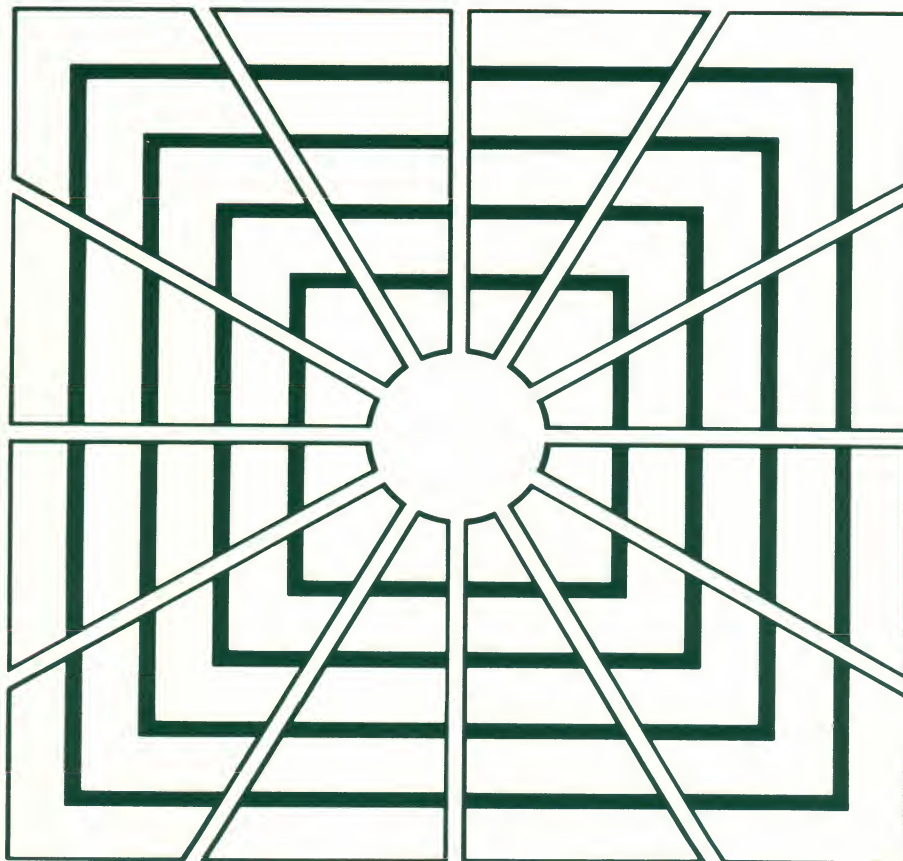




MICROWORLD

SOFTWARE/HARDWARE SELECTION GUIDE



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MICROWORLD

SOFTWARE/HARDWARE SELECTION GUIDE

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HOW TO USE *MICROWORLD*

Despite its allure, the world of microcomputing can be an unwelcome place for the uninformed. New microcomputers, applications and systems software as well as peripheral devices are announced at a whirlwind rate. Keeping pace with this level of activity is a difficult, frustrating task. As a result, purchase decisions are often based on outdated or incomplete information. To address this information explosion, AUERBACH has created *MicroWorld: Software/Hardware Selection Guide*. Supplemented monthly, it is a comprehensive source of current, accurate information about both microcomputer software and hardware.

HOW DOES *MICROWORLD* HELP?

MicroWorld's primary sections—Applications Software, Systems Software, Microcomputers, and Peripherals—encompass the major components of any microcomputer system. This helps ensure that purchase decisions are made in the context of an integrated, compatible system rather than on a piecemeal basis.

In addition, the types of reports contained in *MicroWorld* have been specifically designed for particular phases of software/hardware selection.

Software Selection

Aiding in the software selection process are three types of reports:

- **Compatibility Matrix**—In each Applications and Systems software section, a compatibility matrix cross-references software packages to microcomputer operating systems; the matrix helps you determine the operating systems on which each application and systems package runs. In the microcomputer hardware section, a compatibility matrix cross-references operating systems to microcomputers; this matrix provides you a quick overview of the operating systems supported by each microcomputer.
- **Features Matrix**—In each Applications Software section, a features matrix cross-references every package to a set of features defined specifically for each application category. Using this matrix, you can readily compare the characteristics of all the packages in each application category.
- **Software Product Summary**—Every applications and systems software package in *MicroWorld* is outlined in a Software Product Summary. The summary briefly explains the major characteristics of the package, including the latest pricing information, hardware system requirements, and the vendor's address and telephone number. This information helps you narrow your choice of packages. Cross-references at the end of each summary indicate where each package can be found in the compatibility and features matrices.

Hardware Selection

Four types of reports are used in selecting hardware:

- **Microcomputer Ratings Guides**—These guides lend a quantitative perspective to the microcomputer selection process. Developed for such major application areas as word processing and spreadsheet analysis, the Ratings Guides match each major micro against a well-defined set of system features and characteristics and assign weighted quality points in each category. The sum of the quality points is divided by the price of a typical configuration for each system and then multiplied by 1,000 to give a whole number. The resultant quality rating is a useful indicator of the system's capability/price ratio.
- **Hardware Specifications Chart**—All microcomputers and each type of peripheral are featured in separate specifications charts. Using criteria appropriate to the type of hardware it treats, each chart provides a quick reference and side-by-side comparison of competing micros and peripherals. The Microcomputer Systems Specifications Chart, for example, features more than 40 key criteria, including system availability, random-access memory, system capacities, input/output control, data communications, software, and pricing.
- **Specifications Chart Guide**—This report precedes each specifications chart and provides clear, concise definitions for each criterion found in the accompanying chart.
- **Hardware Product Brief**—This report provides information on the important system characteristics of major microcomputers. Included in the reports are typical system uses, memory and disk storage capacities, software offerings, system configurations, and prices. This information allows you to screen micros according to their characteristics and costs. Product briefs are listed alphabetically by vendor name and include vendor addresses and telephone numbers.

MicroWorld Indices

To help you quickly find the information contained in its various reports, *MicroWorld* has a master index, as well as indices for each section. Updated quarterly with interim monthly supplements, the master index is a comprehensive reference to all the information in *MicroWorld*. The section indices, located immediately behind the section tabs, are convenient subsets of the master index. Each section index provides a handy guide to the section; they are updated whenever information is added to or removed from a section.

Major entries in the master and section indices are accompanied by a 10-digit number indicating the section, report type, and page number(s) of the information.

WHO BENEFITS FROM MICROWORLD?

Because it covers not only microcomputers but several categories of software and peripherals, *MicroWorld* is useful whether you own a micro or are in the market for one. If you currently have a system, *MicroWorld* can help you expand that system's capabilities and extend its applications. Or, if you are planning to purchase a system, *MicroWorld* can ensure that your selection process is thorough and systematic.

Case 1—Purchasing a System

Step 1: Determine Your Application Needs

Because a microcomputer is merely a tool, it is essential to carefully define the applications for which it will be used. Once you have done that (or perhaps to stimulate your thinking along those lines), turn to the *MicroWorld* table of contents. There you will find more than a dozen categories of applications software from which to begin your search.

Step 2: Identify Your Application's Major Features and Select Appropriate Packages

Suppose, for example, you have determined that word processing is one of your major applications. Turn to the features matrix in the Word Processing section. The packages are listed (alphabetically by vendor) in the left-hand column of the matrix. Charted across the top are the features a word processing package should provide. After identifying the minimum number of features a package must have to satisfy your application, scan the matrix for those packages that meet your needs.

Step 3: Review the Characteristics and Pricing of the Candidate Packages

Once you have selected candidate packages, consult the section's index (just behind the Word Processing tab) to locate the packages' product summaries. These contain current pricing information as well as the address and phone number of the packages' vendors. This information enables you to narrow your choices even further. Note the cross-reference at the end of each product summary to the compatibility matrix; these page numbers are needed in the next step of the selection process.

Step 4: Identify Operating Systems Compatible with the Candidate Packages

Before you can begin your search for a microcomputer, you must first determine which operating systems support your candidate packages. For this information, consult the Word Processing Compatibility Matrix. Using the page numbers from the product summaries' cross-references, find your packages in the left-hand column of the appropriate matrix pages. (Remember, the listings are alphabetized by vendor.) For each package, read across the columns headed by the major operating systems to see which is (are) compatible with the packages.

Step 5: Determine the Microcomputers that Support the Suitable Operating Systems

You are now ready to begin your search for a microcomputer. In the Microcomputers section, a compatibility matrix

cross-references major operating systems to the micros covered in the section. Locate the operating systems (at the top of the matrix) that you identified as compatible with your candidate packages. By reading down those columns and across the rows containing bullets, you will discover the microcomputers on which the packages will run.

Step 6: Review the Characteristics and Pricing of the Candidate Micros

For descriptions of the micros you have found, turn first to the Microcomputers section index. The index will direct you to the product briefs and/or specifications chart describing the systems. Use the information in these reports to screen systems whose features and capabilities do not match your needs.

Step 7: Evaluate the Candidate Micros' Price/Capability

You can continue the screening process by turning to the Microcomputer Ratings Guides. Read the introduction to the appropriate guide to understand how it is constructed and how it should be applied in the selection process. Then consult the section's index to determine if and where your candidate systems are covered in the guide. Determine which of the system features heading the guide are most important for you and see how the potential systems scored in those categories. To get an idea of the systems' capability/price ratio across all the features, compare the quality rating figures in the column to the far right. The higher its quality rating, the better the system's value.

Quality rating, however, should not be the only deciding factor in choosing a system. How a system rated in those features crucial to your application is just as important as how it rated across all the features. When using the Ratings Guides, be sure to factor your particular needs into the equation.

You can round out your system configuration with any systems software or peripherals required by your application.

Step 8: Select Compatible Systems Software

If you need additional systems software (e.g., data communications packages, languages) turn first to the compatibility matrix in the appropriate systems software section. Scan down the columns headed by the operating systems of your candidate micros until you come to a bullet. Read across the row at this intersection for the name of a package that will run on that operating system. When you have collected several packages, turn to the section index for the page numbers of the packages' product summaries. Use the information in the summaries to further narrow your choices.

Step 9: Select Appropriate Peripherals

For peripheral devices (e.g., disk drives, printers, add-on memories, monitors, modems), go first to the specifications chart guide in the section covering the type of peripheral you are seeking. As noted earlier, the guide explains the features used to describe the device. Decide which features are vital to your system and evaluate the devices in the accompanying chart accordingly.

Case 2—Expanding the Capabilities of an Existing System

If you already own a micro, you are likely at some time to want to extend its use or expand its capabilities.

Step 1: Determine Your Application Need

You might, for example, want to develop a spreadsheet application for your system. The application necessitates transmitting data to a compatible system at a remote site. To accomplish this, you discover that you need not only a spreadsheet and a data communications package but additional memory as well.

Step 2: Identify the Application Packages that Run on Your Operating System

To find a spreadsheet package, turn to the compatibility matrix in the Budgeting/Forecasting section. Locate your micro's operating system along the top of the matrix. Scan down that column, noting which packages (listed alphabetically by vendor on the left-hand side of the matrix) will run on your system. Go next to the Budgeting/Forecasting Features Matrix to determine which of the compatible packages have the features you need; this exercise will eliminate many of the packages.

Step 3: Review the Characteristics and Pricing of the Candidate Packages

To eliminate even more packages, consult the section's index to locate the packages' product summaries. These provide

more descriptive information on the packages, including the latest prices and the vendors' addresses and phone numbers.

Step 4: Select Compatible Systems Software

Selecting a data communications package is done in a similar fashion. The compatibility matrix in the Data Communications section will identify which packages are compatible with your operating system. You can find descriptions and costs of the candidate packages in the section's product summaries. (Remember to use the section index to locate each package's product summary.)

Step 5: Select Appropriate Peripherals

For add-on memories, go first to that section's specifications chart guide. The guide describes the features against which add-on memories are compared in the accompanying specifications chart. Based on the requirements of your particular system and application, determine the features that an add-on memory must have and peruse the chart for devices that have those features.

NEED HELP OR MORE INFORMATION?

Although *MicroWorld* is designed to be a comprehensive, accurate, up-to-date, and easy-to-use source of microcomputing information, you may need advice on using *MicroWorld* or additional information on micro software or hardware. On those occasions, please use our Telephone/Telex Information Services. Trained information specialists will help with your questions and promptly get you the answers you need. The numbers are (800) 257-8162 (in New Jersey, [609] 662-2070) or telex 831 464.

HOW TO FILE YOUR *MICROWORLD* REPORTS

HOW ARE REPORTS NUMBERED?

Every report in *MicroWorld* contains a 10-digit identification number on the outside corner of each page. This numbering system is designed to save you considerable time and effort in locating information.

The first three digits identify the section in which the report is contained. *MicroWorld* currently comprises the following sections:

- 195 Front Matter
- 200 Accounts Payable
- 201 Accounts Receivable
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- 230 Microcomputer Selection Guide
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- 232 Winchesters
- 233 Diskettes
- 234 Add-On Memories
- 235 Printers
- 236 Monitors

The middle four digits indicate the type of report:

- .0005 How to Use
- .0006 How to File
- .0010 Table of Contents
- .0015 Index
- .0025 Software Compatibility Matrix
- .0030 Software Features Matrix
- .0035 Software Product Summary
- .0040 Specifications Chart Guide
- .0045 Specifications Chart
- .0050 Hardware Product Brief

- .0055 Selection Guide Introduction
- .0060 Selection Guide Table

The remaining three digits indicate the page number of a given report type in each section. Thus, the number 200.0025.001 designates the first page of the Compatibility Matrix in the Accounts Payable section.

FILING *MICROWORLD* REPORT

Every monthly supplement contains filing instructions specifying what pages to insert and remove from *MicroWorld*.

New and revised reports are filed according to their identification numbers. New reports are added to the back of the section and are labeled "Supplement" in the lower-right corner. Page numbers are continuous within the section so you can locate supplements quickly.

Supplement groups are compiled alphabetically and feature the MM/YY date code indicating the month and year the supplement was added to your *MicroWorld* service. Supplements of given report types will be consolidated as required. When this occurs, an entire new section replacing the current material will be mailed to you. This will save you considerable time and effort in integrating new material with the main body of information.

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The following is a complete list of all information services currently available from AUERBACH.

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- *Data Security Management*
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- *Data Center Operations Management*
- *Computer Programming Management*
- *Data Processing Management*
- *Systems Development Management*
- *Data Base Management*
- *Data Communications Management*
- *Distributed Data Processing Management*

Computer Technology Reports

These monthly updated technical services provide all of the information you need to make correct equipment purchase decisions for your company. These reports feature product specifications, market overviews, user evaluations, comparison charts, price data, product configurations, and company directories. The following services are offered:

- *DataWorld*
- *Electronic Office*
- *Applications Software*
- *Systems Software*
- *Minicomputers*
- *Data Communications*
- *Standard EDP Reports*
- *Computer Technology Library*

Telecommunications Management Series

This two-volume bimonthly updated service is designed to save you money the day you receive it. This service allows you to evaluate your current system against potential new ones, uncover hidden costs in your telephone bill, understand tariffs, manage vendors effectively, and choose the best equipment to satisfy your company's needs both today and in the future. **Telecommunications Management** comprises **Telephone Cost and Call Management** and **Telephone Equipment Selection Guide**, which are sold separately or as a set.

Computers In Manufacturing

A five-volume monthly updated service devoted to the design, implementation, and maintenance of a manufacturing resource planning (MRP) system. Each report in the series is written by

an MRP practitioner who has successfully addressed the human and technical roadblocks inherent in new and existing MRP systems. **Computers In Manufacturing** is sold as individual volumes or as a complete set. The volumes are:

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- *Master Production Scheduling*
- *Material Requirements Planning*
- *Execution and Control Systems*
- *Distribution Management*

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Data Processing Security and Control and *EDP Auditing* are regularly updated guides providing step-by-step methods and procedures for the ongoing execution of your function. Each is packed with worksheets, charts, graphs, and lists. The guides are used to improve existing job functions, train new employees, and establish new functions.

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MicroWorld

Software/Hardware Selection Guide

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Q280 Specifications Chart	232.0045.510	2	RO351 Specifications Chart	232.0045.514	2	ST238 Specifications Chart	232.0045.516	2
Q520 Specifications Chart	232.0045.510	2	RO352 Specifications Chart	232.0045.514	2	ST4026 Specifications Chart	232.0045.516	2
Q530 Specifications Chart	232.0045.511	2	RO412 Specifications Chart	232.0045.514	2	ST4038 Specifications Chart	232.0045.517	2
Q540 Specifications Chart	232.0045.511	2	RO413 Specifications Chart	232.0045.514	2	ST4051 Specifications Chart	232.0045.517	2
Quay 500 Series Specifications Chart	228.0045.027	2	RO414 Specifications Chart	232.0045.514	2	ST4096 Specifications Chart	232.0045.517	2
Q2010 (Quantum) Specifications Chart	232.0045.509	2	RO432 Specifications Chart	232.0045.514	2	Seequa Computer Seequa/PC Specifications Chart	228.0045.028	2
Q2020 (Quantum) Specifications Chart	232.0045.510	2	RO433 Specifications Chart	232.0045.515	2	Seequa/XT Specifications Chart	228.0045.028	2
Q2030 (Quantum) Specifications Chart	232.0045.510	2	RO434 Specifications Chart	232.0045.515	2	Series 5000 (Micro Five Computers) Specifications Chart	228.0045.022	2
Q2040 (Quantum) Specifications Chart	232.0045.510	2	RO651 Specifications Chart	232.0045.515	2	Series 80 HP-85P (Hewlett-Packard) Specifications Chart	228.0045.014	2
			RO652 Specifications Chart	232.0045.515	2	Series 80 HP-86B (Hewlett-Packard) Specifications Chart	228.0045.015	2
			RO655 Specifications Chart	232.0045.515	2			

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SERVER TECHNOLOGY

TOSHIBA AMERICA

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Specifications Chart	238.0045.019	2	Specifications Chart	238.0045.021	2	43404 Mini Hard Disk	232.0045.524	2
Siecor						Specifications Chart		
Net 10			Tallgrass Technologies			73010 MacDrive	232.0045.524	2
Specifications Chart	238.0045.019	2	TG-2025i	232.0045.518	2	Specifications Chart		
Siemens AG			Specifications Chart			73020 MacDrive	232.0045.524	2
Megafile/1100	232.0045.517	2	TG-5025 Hardfile	232.0045.518	2	Specifications Chart		
Specifications Chart			Specifications Chart			73200 MacDrive	232.0045.524	2
Megafile/1200	232.0045.517	2	TG-5525i	232.0045.519	2	Specifications Chart		
Specifications Chart			Specifications Chart			73210 MacDrive	232.0045.524	2
Megafile/1300	232.0045.517	2	TG-5535i	232.0045.519	2	Specifications Chart		
Specifications Chart			Specifications Chart			Tele-PC PLUS (TeleVideo Systems)	228.0045.033	2
SMC 2000 (Sony)	228.0045.029	2	TG-5550i CDC	232.0045.519	2	Specifications Chart		
Specifications Chart			Specifications Chart			Tele-XT PLUS (TeleVideo Systems)	228.0045.033	2
Sony			TG-5550i MS	232.0045.519	2	Specifications Chart		
M35	228.0045.029	2	Specifications Chart			TeleColor-PC (TeleVideo Systems)	228.0045.033	2
Specifications Chart			TG-5580i MS	232.0045.519	2	Specifications Chart		
SMC 2000	228.0045.029	2	Specifications Chart			TeleColor-XT (TeleVideo Systems)	228.0045.034	2
Specifications Chart			TG-6135 Hardfile	232.0045.519	2	Specifications Chart		
SORD Computer of America			Specifications Chart			TeleVideo AT (TeleVideo Systems)	228.0045.034	2
M68MX	228.0045.029	2	TG-6150	232.0045.520	2	Specifications Chart		
Specifications Chart			Specifications Chart			TeleVideo Systems		
Spartacus			TG-6180	232.0045.520	2	Tele-PC PLUS	228.0045.033	2
KNET/VM	238.0045.019	2	Specifications Chart			Specifications Chart		
Specifications Chart			Tandon			Tele-XT PLUS	228.0045.033	2
Sperry			DISKARD 21	232.0045.520	2	Specifications Chart		
PC/HT	228.0045.030	2	Specifications Chart			TeleColor-PC	228.0045.033	2
Specifications Chart			TM250 Series	232.0045.520	2	Specifications Chart		
PC/IT	228.0045.030	2	Specifications Chart			TeleColor-XT	228.0045.034	2
Specifications Chart			TM500 Series	232.0045.520	2	Specifications Chart		
SQ306RD (SyQuest)	232.0045.518	2	Specifications Chart			TeleVideo AT	228.0045.034	2
Specifications Chart			TM700 Series	232.0045.520	2	Specifications Chart		
SQ312RD (SyQuest)	232.0045.518	2	Specifications Chart			Texas Instruments		
Specifications Chart			Tandy (Radio Shack)			Business-Pro	228.0045.034	2
SQ325F (SyQuest)	232.0045.518	2	Model 4D	228.0045.031	2	Specifications Chart		
Specifications Chart			Specifications Chart			Professional Computer	228.0045.035	2
SQ338F (SyQuest)	232.0045.518	2	Tandy 1000/1000HD	228.0045.031	2	Specifications Chart		
Specifications Chart			Specifications Chart			TMS380 LAN	238.0045.021	2
Standard Microsystems			Tandy 1200/1200 HD	228.0045.032	2	Specifications Chart		
ARCNET	238.0045.020	2	Specifications Chart			TG-2025i (Tallgrass Technologies)	232.0045.518	2
Specifications Chart			Tandy 2000/2000 HD	228.0045.032	2	Specifications Chart		
STAR Technologies			Specifications Chart			TG-5025 Hardfile (Tallgrass Technologies)	232.0045.518	2
Star*Net	238.0045.020	2	Tandy 3000/3000 HD	228.0045.032	2	Specifications Chart		
Specifications Chart			Specifications Chart			TG-5525i (Tallgrass Technologies)	232.0045.519	2
Star*Net (STAR Technologies)	238.0045.020	2	ViaNet	238.0045.021	2	Specifications Chart		
Specifications Chart			Specifications Chart			TG-5535i (Tallgrass Technologies)	232.0045.519	2
STARLAN (AT&T Information Systems)	238.0045.003	2	25-10-25 10MB Drive	232.0045.521	2	Specifications Chart		
Specifications Chart			Specifications Chart			TG-5550i CDC (Tallgrass Technologies)	232.0045.519	2
STARPORT (Datapoint)	228.0045.007	2	26-41-55/-56 Drive	232.0045.521	2	Specifications Chart		
Specifications Chart			Specifications Chart			TG-5550i MS (Tallgrass Technologies)	232.0045.519	2
Stearns Computer Systems			26-41-71/-72 35MB Drive	232.0045.521	2	Specifications Chart		
The Great Communicator	228.0045.030	2	Specifications Chart			TG-5580i MS (Tallgrass Technologies)	232.0045.519	2
Specifications Chart			26-41-73/-74 70MB System	232.0045.521	2	Specifications Chart		
The Informer	228.0045.031	2	Specifications Chart			TG-6135 Hardfile (Tallgrass Technologies)	232.0045.519	2
Specifications Chart			Tandy 1000/1000HD (Tandy (Radio Shack))	228.0045.031	2	Specifications Chart		
ST212 (Seagate Technology)	232.0045.516	2	Specifications Chart			TG-6150 (Tallgrass Technologies)	232.0045.520	2
Specifications Chart			TEAC			Specifications Chart		
ST213 (Seagate Technology)	232.0045.516	2	SD-510	232.0045.521	2	TG-6180 (Tallgrass Technologies)	232.0045.520	2
Specifications Chart			Specifications Chart			Specifications Chart		
ST225 (Seagate Technology)	232.0045.516	2	SD-520	232.0045.521	2	The Great Communicator (Stearns Computer Systems)	228.0045.030	2
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ST238 (Seagate Technology)	232.0045.516	2	Specifications Chart			TMS380 LAN (Texas Instruments)	238.0045.021	2
Specifications Chart			MassFile	232.0045.525	2	Specifications Chart		
ST4026 (Seagate Technology)	232.0045.516	2	Specifications Chart			TM250 Series (Tandon)	232.0045.520	2
Specifications Chart			Q60W20/Q60W20AT	232.0045.525	2	Specifications Chart		
ST4038 (Seagate Technology)	232.0045.517	2	Specifications Chart			TM500 Series (Tandon)	232.0045.520	2
Specifications Chart			40010 Removable	232.0045.522	2	Specifications Chart		
ST4051 (Seagate Technology)	232.0045.517	2	Specifications Chart			TM700 Series (Tandon)	232.0045.520	2
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ST4096 (Seagate Technology)	232.0045.517	2	Specifications Chart			Token Ring LAN (IBM)	238.0045.011	2
Specifications Chart			40200 Hard Disk 10	232.0045.522	2	Specifications Chart		
Syntax			Specifications Chart			Token/Net (Concord Data Systems)	238.0045.006	2
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Specifications Chart			Specifications Chart			Toshiba America		
SyQuest			40300 Hard Disk 15	232.0045.522	2	MK-153FA	232.0045.525	2
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Specifications Chart			40310 Removable and 15	232.0045.523	2	MK-154FA	232.0045.525	2
SQ312RD	232.0045.518	2	Specifications Chart			Specifications Chart		
Specifications Chart			40414 Expansion Hard Disk	232.0045.523	2	MK-156FA	232.0045.525	2
SQ325F	232.0045.518	2	Specifications Chart			Specifications Chart		
Specifications Chart			43010 Removable	232.0045.523	2	MK-53F	232.0045.525	2
SQ338F	232.0045.518	2	Specifications Chart			Specifications Chart		
Specifications Chart			43200 Hard Disk 10	232.0045.523	2	MK-54F	232.0045.526	2
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			43300 Hard Disk 15	232.0045.523	2			
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TOUCHSCREEN II (HEWLETT-PACKARD)

3COM

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Specifications Chart	228.0045.015	2	Specifications Chart	228.0045.037	2			
Touchscreen MAX II (Hewlett-Packard)			XLAN (Complex Systems)					
Specifications Chart	228.0045.015	2	Specifications Chart	238.0045.005	2			
TRW			XODIAC (Data General)					
Concept 2000			Specifications Chart	238.0045.008	2			
Specifications Chart	238.0045.022	2	XP Series (Honeywell Information Systems)					
			Specifications Chart	228.0045.017	2			
U-Convert (United Computer Technology)			Xyplex					
Specifications Chart	228.0045.035	2	XYPLEX System					
Ungermann-Bass			Specifications Chart	238.0045.024	2			
Net/One								
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UniLAN (Applitek)			Specifications Chart	228.0045.037	2			
Specifications Chart	238.0045.001	2	Z-158 (Zenith Data Systems)					
United Computer Technology			Specifications Chart	228.0045.038	2			
U-Convert			Z-200 Advanced PC (Zenith Data Systems)					
Specifications Chart	228.0045.035	2	Specifications Chart	228.0045.038	2			
			Zenith Data Systems					
VAX Interface Manager (Syntax)			Z-148					
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Vector Graphic			Z-158					
VSX Series Model 3000			Specifications Chart	228.0045.038	2			
Specifications Chart	228.0045.035	2	Z-200 Advanced PC					
Vectra PC (Hewlett-Packard)			Specifications Chart	228.0045.038	2			
Specifications Chart	228.0045.015	2	Ztel					
Vertex V130 (Priam)			Private Network Exchange					
Specifications Chart	232.0045.508	2	Specifications Chart	238.0045.024	2			
Vertex V150 (Priam)								
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Vertex V170 (Priam)			3Com					
Specifications Chart	232.0045.508	2	EtherSeries					
Vertex V185 (Priam)			Specifications Chart	238.0045.001	2			
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ViaNet (Tandy (Radio Shack))								
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VINES (Banyan Systems)								
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VSX Series Model 3000 (Vector Graphic)								
Specifications Chart	228.0045.035	2						
Wang Laboratories								
Advanced Professional Computer								
Specifications Chart	228.0045.036	2						
APC-PMO23								
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Specifications Chart	232.0045.526	2						
APX-PMO26								
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XC 20 (Xerox)								
Specifications Chart	238.0045.023	2						
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Insider								
Specifications Chart	232.0045.527	2						
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9710H/9720H								
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XC 20								
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Specifications Chart	238.0045.023	2						
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COMPUTER PRINTERS INTERNATIONAL

EPSON AMERICA

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Computer Printers International			LZR-2660/65			DW/OS-55 (Wang Laboratories)		
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Specifications Chart	235.0045.010	2	M-100L			DW/22-20 (Wang Laboratories)		
Computer Transceiver Systems			Specifications Chart	235.0045.015	2	Specifications Chart	235.0045.518	2
1205			M-120			DWP 220 (Tandy (Radio Shack))		
Specifications Chart	235.0045.010	2	Specifications Chart	235.0045.016	2	Specifications Chart	235.0045.514	2
1210			M-200			DWP 510 (Tandy (Radio Shack))		
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1220			8010, 8012			DX 1500 (Axiom)		
Specifications Chart	235.0045.010	2	Specifications Chart	235.0045.013	2	Specifications Chart	235.0045.004	2
1230			8020, 8022			DX 2000 (Axiom)		
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1240			8052			DX 2500 (Axiom)		
Specifications Chart	235.0045.011	2	Specifications Chart	235.0045.013	2	Specifications Chart	235.0045.004	2
1250			8070			DX 3500 (Axiom)		
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1260			8072			DX-P1090 (Panasonic Industrial)		
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420			Datasouth Computer			DX-10 (Epson America)		
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430			Specifications Chart	235.0045.016	2	DX-20 (Epson America)		
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440			Specifications Chart	235.0045.016	2	DX-35 (Epson America)		
Specifications Chart	235.0045.012	2	DS 180 Plus			Specifications Chart	235.0045.019	2
443			Specifications Chart	235.0045.016	2	DX2100/DX2200 (Fujitsu Systems of America)		
Specifications Chart	235.0045.012	2	DS 220			Specifications Chart	235.0045.024	2
CPD-1201 (Sony)			Specifications Chart	235.0045.016	2	DY250/450 (Olivetti)		
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CPD-9000 (Sony)			Specifications Chart	235.0045.017	2			
Specifications Chart	236.0045.017	2	TX 5220					
CRT 40 (Sanyo)			Specifications Chart	235.0045.017	2			
Specifications Chart	236.0045.016	2	Diablo 635 (Xerox)			Eaton Printer Products		
CRT 41 (Sanyo)			Specifications Chart	235.0045.520	2	4000/4002		
Specifications Chart	236.0045.016	2	Digital Equipment			Specifications Chart	235.0045.019	2
CRT 80 (Sanyo)			LA 100 Letterprinter and Letterwriter			4110		
Specifications Chart	236.0045.016	2	Specifications Chart	235.0045.017	2	Specifications Chart	235.0045.019	2
CRT 88 (Sanyo)			LA12 DECwriter and			ECD 1904/2504 (Electrohome)		
Specifications Chart	236.0045.016	2	CORRESPONDENT			Specifications Chart	236.0045.004	2
CX 3180 (Datasouth Computer)			Specifications Chart	235.0045.017	2	ECM 1311 (Electrohome)		
Specifications Chart	235.0045.016	2	LA120-RA/RB DECprinter III			Specifications Chart	236.0045.005	2
CX 3220 (Datasouth Computer)			Specifications Chart	235.0045.017	2	ECM 1901 (Electrohome)		
Specifications Chart	235.0045.016	2	LA210 Letterprinter			Specifications Chart	236.0045.005	2
C3479 (Mitsubishi Electronics America)			Specifications Chart	235.0045.017	2	Electrohome		
Specifications Chart	236.0045.007	2	LCP01 Inkjet Printer			ECD 1904/2504		
C3920 (Mitsubishi Electronics America)			Specifications Chart	235.0045.018	2	Specifications Chart	236.0045.004	2
Specifications Chart	236.0045.007	2	LN01 Laser Printer			ECM 1311		
C5500 (Facit)			Specifications Chart	235.0045.018	2	Specifications Chart	236.0045.005	2
Specifications Chart	235.0045.024	2	LN03 Laser Printer			ECM 1901		
C6479 (Mitsubishi Electronics America)			Specifications Chart	235.0045.018	2	Specifications Chart	236.0045.005	2
Specifications Chart	236.0045.008	2	LP25			EVM 1220		
C6920 (Mitsubishi Electronics America)			Specifications Chart	235.0045.018	2	Specifications Chart	236.0045.005	2
Specifications Chart	236.0045.008	2	LP26			EVM 1519		
C7500 (Facit)			Specifications Chart	235.0045.018	2	Specifications Chart	236.0045.005	2
Specifications Chart	236.0045.008	2	LQP02			EVM 1719		
C9918 (Mitsubishi Electronics America)			Specifications Chart	235.0045.018	2	Specifications Chart	236.0045.005	2
Specifications Chart	235.0045.024	2	PQP03			EVM 2319		
C9918 (Mitsubishi Electronics America)			Specifications Chart	235.0045.019	2	Specifications Chart	236.0045.006	2
Specifications Chart	236.0045.008	2	DL2400 (Fujitsu Systems of America)			EVM 920		
			Specifications Chart	235.0045.024	2	Specifications Chart	236.0045.005	2
D-100 (Smith-Corona)			DMP 105 Dot Matrix Printer (Tandy (Radio Shack))			Emulex		
Specifications Chart	235.0045.512	2	Specifications Chart	235.0045.513	2	Bob-compatible Color Monitor		
D-200 (Smith-Corona)			DMP 130 (Tandy (Radio Shack))			Specifications Chart	236.0045.006	2
Specifications Chart	235.0045.512	2	Specifications Chart	235.0045.514	2	ENHANCED TOUCH (MICROTOUCH)		
D-300 (Smith-Corona)			DMP 2100 (Tandy (Radio Shack))			Specifications Chart	236.0045.006	2
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Dataproductions			DMP 2200 (Tandy (Radio Shack))			AP-80		
B-1000			Specifications Chart	235.0045.514	2	Specifications Chart	235.0045.019	2
Specifications Chart	235.0045.013	2	DMP 430 (Tandy (Radio Shack))			DX-10		
B-300			Specifications Chart	235.0045.514	2	Specifications Chart	235.0045.020	2
Specifications Chart	235.0045.014	2	DM580 (Olivetti)			DX-20		
B-600			Specifications Chart	235.0045.503	2	Specifications Chart	235.0045.020	2
Specifications Chart	235.0045.014	2	DP-20 (Dataproductions)			DX-35		
BP-1500			Specifications Chart	235.0045.014	2	Specifications Chart	235.0045.019	2
Specifications Chart	235.0045.014	2	DP-55 (Dataproductions)			FX-85, FX-185		
BP-2000			Specifications Chart	235.0045.014	2	Specifications Chart	235.0045.020	2
Specifications Chart	235.0045.014	2	DP-80 (Norcom)			HomeWriter 10		
DP-20			Specifications Chart	235.0045.502	2	Specifications Chart	235.0045.019	2
Specifications Chart	235.0045.014	2	DS 180 Plus (Datasouth Computer)			HS080 Letterjet Portable		
DP-55			Specifications Chart	235.0045.016	2	Specifications Chart	235.0045.020	2
Specifications Chart	235.0045.014	2	DS 220 (Datasouth Computer)			JX-80		
LB-300			Specifications Chart	235.0045.016	2	Specifications Chart	235.0045.021	2
Specifications Chart	235.0045.015	2	DT-D1000G (Panasonic Industrial)			LQ-1500		
LB-600			Specifications Chart	236.0045.010	2	Specifications Chart	235.0045.021	2
Specifications Chart	235.0045.015	2	DT-D1300D (Panasonic Industrial)			RX-100		
LZR-2610			Specifications Chart	236.0045.010	2	Specifications Chart	235.0045.020	2
Specifications Chart	235.0045.015	2	DT-H103 (Panasonic Industrial)			Spectrum LX-80		
LZR-2650/55			Specifications Chart	236.0045.011	2	Specifications Chart	235.0045.021	2
Specifications Chart	235.0045.015	2	DT-M140 (Panasonic Industrial)			Spectrum LX-90		
			Specifications Chart	236.0045.011	2	Specifications Chart	235.0045.021	2
			DT-S101 (Panasonic Industrial)			SQ 2000		
			Specifications Chart	236.0045.011	2	Specifications Chart	235.0045.020	2

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ESW 3000 (OLYMPIA USA)

JC-1225MA (NEC HOME ELECTRONICS)

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ESW 3000 (Olympia USA) Specifications Chart	235.0045.504	2	3410 Specifications Chart	235.0045.027	2	HP 2671A (Hewlett-Packard) Specifications Chart	235.0045.029	2
EVM 1220 (Electrohome) Specifications Chart	236.0045.005	2	4410 Specifications Chart	235.0045.027	2	HP 2671G (Hewlett-Packard) Specifications Chart	235.0045.029	2
EVM 1519 (Electrohome) Specifications Chart	236.0045.005	2	4440 Specifications Chart	235.0045.027	2	HP 2673A (Hewlett-Packard) Specifications Chart	235.0045.029	2
EVM 1719 (Electrohome) Specifications Chart	236.0045.005	2	5010 Specifications Chart	235.0045.027	2	HP 2686A LaserJet (Hewlett-Packard) Specifications Chart	235.0045.029	2
EVM 2319 (Electrohome) Specifications Chart	236.0045.006	2	GLP (Centronics) Specifications Chart	235.0045.007	2	HP 2686A LaserJet PLUS (Hewlett-Packard) Specifications Chart	235.0045.029	2
EVM 920 (Electrohome) Specifications Chart	236.0045.005	2	GO687 (Hecon) Specifications Chart	235.0045.028	2	HP 2687A (Hewlett-Packard) Specifications Chart	235.0045.030	2
EX-1620 (Axiom) Specifications Chart	235.0045.005	2	H-136 (Centronics) Specifications Chart	235.0045.007	2	HP 2932A General Purpose Printer (Hewlett-Packard) Specifications Chart	235.0045.030	2
EX-420 (Axiom) Specifications Chart	235.0045.005	2	H-80 (Centronics) Specifications Chart	235.0045.007	2	HP 2934A Office Printer (Hewlett-Packard) Specifications Chart	235.0045.030	2
Facit			Hecon			HP 35731 (Hewlett-Packard) Specifications Chart	236.0045.006	2
C5500 Specifications Chart	235.0045.024	2	A0543 Specifications Chart	235.0045.027	2	HP 35741 (Hewlett-Packard) Specifications Chart	236.0045.006	2
C7500 Specifications Chart	235.0045.024	2	A0556 Specifications Chart	235.0045.027	2	HSP-3609-212A (Miltipe) Specifications Chart	235.0045.036	2
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4512 Specifications Chart	235.0045.022	2	HP 2563A Specifications Chart	235.0045.028	2	HX-9 (Princeton Graphic Systems) Specifications Chart	236.0045.012	2
4513 Specifications Chart	235.0045.022	2	HP 2566A Specifications Chart	235.0045.028	2	HX-9E (Princeton Graphic Systems) Specifications Chart	236.0045.012	2
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4544 Specifications Chart	235.0045.023	2	HP 2673A Specifications Chart	235.0045.029	2	4201 Proprinter Specifications Chart	235.0045.031	2
4560 Specifications Chart	235.0045.023	2	HP 2686A LaserJet Specifications Chart	235.0045.029	2	4715 Specifications Chart	235.0045.031	2
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JC-1270MA (NEC HOME ELECTRONICS)

NEC HOME ELECTRONICS

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JC-1275MA (NEC Home Electronics) Specifications Chart	236.0045.010	2	LQP02 (Digital Equipment) Specifications Chart	235.0045.018	2	C3479 Specifications Chart	236.0045.007	2
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JX-80 (Epson America) Specifications Chart	235.0045.021	2	LZR-2660/65 (Dataproducts) Specifications Chart	235.0045.015	2	6679 Specifications Chart	236.0045.007	2
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KX-P1080 (Panasonic Industrial) Specifications Chart	235.0045.504	2	M-200 (Dataproducts) Specifications Chart	235.0045.016	2	Model 458 (AT&T Information Systems) Specifications Chart	235.0045.003	2
KX-P1092 (Panasonic Industrial) Specifications Chart	235.0045.505	2	MA-121 (RCA New Product Division) Specifications Chart	236.0045.014	2	Model 470/471 (AT&T Information Systems) Specifications Chart	235.0045.003	2
KX-P1093 (Panasonic Industrial) Specifications Chart	235.0045.505	2	MA-122 (RCA New Product Division) Specifications Chart	236.0045.014	2	Model 473/474 (AT&T Information Systems) Specifications Chart	235.0045.004	2
KX-P1592 (Panasonic Industrial) Specifications Chart	235.0045.505	2	Mannesmann Tally MT 180 Specifications Chart	235.0045.034	2	Model 475/476 (AT&T Information Systems) Specifications Chart	235.0045.004	2
KX-P1595 (Panasonic Industrial) Specifications Chart	235.0045.505	2	MT 290 Specifications Chart	235.0045.034	2	Model 478/479 (AT&T Information Systems) Specifications Chart	235.0045.004	2
KX-P3131 (Panasonic Industrial) Specifications Chart	235.0045.505	2	MT 420/440 Specifications Chart	235.0045.035	2	Model 800 DP (Texas Instruments) Specifications Chart	235.0045.515	2
KX-P3151 (Panasonic Industrial) Specifications Chart	235.0045.506	2	MT 460 Specifications Chart	235.0045.035	2	Model 880 (Texas Instruments) Specifications Chart	235.0045.515	2
L-1000 (Smith-Corona) Specifications Chart	235.0045.513	2	MT 490 Specifications Chart	235.0045.035	2	Model 880 AT (Texas Instruments) Specifications Chart	235.0045.515	2
LA 100 Letterprinter and Letterwriter (Digital Equipment) Specifications Chart	235.0045.017	2	MT 660 Specifications Chart	235.0045.035	2	Model 910 (Printek) Specifications Chart	235.0045.507	2
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LA12 DECwriter and CORRESPONDENT (Digital Equipment) Specifications Chart	235.0045.017	2	MB-121 (RCA New Product Division) Specifications Chart	236.0045.014	2	Model 930 dix (Printek) Specifications Chart	235.0045.507	2
LA120-RA/RB DECprinter III (Digital Equipment) Specifications Chart	235.0045.017	2	MB-122 (RCA New Product Division) Specifications Chart	236.0045.014	2	Model 930/dd (Printek) Specifications Chart	235.0045.508	2
LA210 Letterprinter (Digital Equipment) Specifications Chart	235.0045.017	2	MB-142 (RCA New Product Division) Specifications Chart	236.0045.014	2	Model 935 (Printek) Specifications Chart	235.0045.508	2
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LB-600 (Dataproducts) Specifications Chart	235.0045.015	2	SXPrinter Specifications Chart	235.0045.036	2	Monitor II (Apple Computer) Specifications Chart	236.0045.002	2
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LN01 Laser Printer (Digital Equipment) Specifications Chart	235.0045.018	2	NTSC* TOUCH Specifications Chart	236.0045.007	2	MT 420/440 (Mannesmann Tally) Specifications Chart	235.0045.035	2
LN03 Laser Printer (Digital Equipment) Specifications Chart	235.0045.018	2	RGB* TOUCH Specifications Chart	236.0045.007	2	MT 460 (Mannesmann Tally) Specifications Chart	235.0045.035	2
LP 3036 (Mittope) Specifications Chart	235.0045.036	2	Mittope HSP-3609-212A Specifications Chart	235.0045.036	2	MT 490 (Mannesmann Tally) Specifications Chart	235.0045.035	2
LPS-8 Laser Printing System (Wang Laboratories) Specifications Chart	235.0045.518	2	LP 3036 Specifications Chart	235.0045.036	2	MT 660 (Mannesmann Tally) Specifications Chart	235.0045.035	2
LP25 (Digital Equipment) Specifications Chart	235.0045.018	2	TP-2000 Specifications Chart	235.0045.036	2	MT 85/86 (Mannesmann Tally) Specifications Chart	235.0045.035	2
LP26 (Digital Equipment) Specifications Chart	235.0045.018	2	TP-3000 Specifications Chart	235.0045.036	2	M304x (Fujitsu Systems of America) Specifications Chart	235.0045.024	2
LP4080R (Ricoh) Specifications Chart	235.0045.510	2	Miniterm 2100 Receive Only (Computer Devices) Specifications Chart	235.0045.010	2	NEC Home Electronics JB-1201 Specifications Chart	236.0045.008	2
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JB-1280DA			DX-P1090			Model 930/dd		
Specifications Chart	236.0045.009	2	Specifications Chart	235.0045.504	2	Specifications Chart	235.0045.508	2
JB-1285DA			KN-P1091			Model 935		
Specifications Chart	236.0045.009	2	Specifications Chart	235.0045.505	2	Specifications Chart	235.0045.508	2
JC-1216DF			KX-P1080			Printer Products		
Specifications Chart	236.0045.009	2	Specifications Chart	235.0045.504	2	S-400		
JC-1225MA			KX-P1092			Specifications Chart	235.0045.508	2
Specifications Chart	236.0045.009	2	Specifications Chart	235.0045.505	2	S-400 G		
JC-1270MA			KX-P1093			Specifications Chart	235.0045.508	2
Specifications Chart	236.0045.010	2	Specifications Chart	235.0045.505	2	Printmate 350 (Micro Peripherals)		
JC-1275MA			KX-P1592			Specifications Chart	235.0045.035	2
Specifications Chart	236.0045.010	2	Specifications Chart	235.0045.505	2	Printstation 240 (Centronics)		
JC-1460D			KX-P1595			Specifications Chart	235.0045.008	2
Specifications Chart	236.0045.010	2	Specifications Chart	235.0045.505	2	PROWRITER (C. Itoh Digital Products)		
NEC Information Systems			KX-P3131			Specifications Chart	235.0045.032	2
Pinwriter CP2, CP3			Specifications Chart	235.0045.505	2	PROWRITER C 310 (C. Itoh Digital Products)		
Specifications Chart	235.0045.501	2	KX-P3151			Specifications Chart	235.0045.033	2
Pinwriter P2, P3			Specifications Chart	235.0045.506	2	PROWRITER Jr. (C. Itoh Digital Products)		
Specifications Chart	235.0045.501	2	TR-122M9P/TR-122MYP			Specifications Chart	235.0045.033	2
Pinwriter P5 Series			Specifications Chart	236.0045.011	2	PRU7070/7071/7072 (Honeywell Information Systems)		
Specifications Chart	235.0045.501	2	TR120MDPA/TR120M1PA			Specifications Chart	235.0045.030	2
Spinwriter 300 Series			Specifications Chart	236.0045.011	2	PRU7075/7076/7077 (Honeywell Information Systems)		
Specifications Chart	235.0045.501	2	TX-12H3P			Specifications Chart	235.0045.030	2
Spinwriter 3500 Series			Specifications Chart	236.0045.011	2	PRU7170/7171/7172 (Honeywell Information Systems)		
Specifications Chart	235.0045.501	2	Pinwriter CP2, CP3 (NEC Information Systems)			Specifications Chart	235.0045.030	2
Spinwriter 8800 Series			Specifications Chart	235.0045.501	2	PRU7175/7176/7177 (Honeywell Information Systems)		
Specifications Chart	235.0045.501	2	Pinwriter P2, P3 (NEC Information Systems)			Specifications Chart	235.0045.031	2
Norcom			Specifications Chart	235.0045.501	2	PRU7200/7210, Models 24 and 25 (Honeywell Information Systems)		
DP-80			Pinwriter P5 Series (NEC Information Systems)			Specifications Chart	235.0045.031	2
Specifications Chart	235.0045.502	2	Specifications Chart	235.0045.501	2	PRU7270/7271/7272 (Honeywell Information Systems)		
North Atlantic Quantex			PJ-1080A (Canon USA)			Specifications Chart	235.0045.031	2
7035 Tempest			Specifications Chart	235.0045.006	2	PT 88 (Siemens AG)		
Specifications Chart	235.0045.502	2	Powertyre (Star Micronics)			Specifications Chart	235.0045.512	2
7075			Specifications Chart	235.0045.513	2	PT 89 (Siemens AG)		
Specifications Chart	235.0045.502	2	PQPO3 (Digital Equipment)			Specifications Chart	235.0045.512	2
7085			Specifications Chart	235.0045.019	2	P101 (Xerox)		
Specifications Chart	235.0045.502	2	PR 3000 (Sanyo)			Specifications Chart	235.0045.520	2
NTSC TOUCH (MICROTOUCH)			Specifications Chart	235.0045.511	2	P12CQ1 (Xerox)		
Specifications Chart	236.0045.007	2	PR 5200 (Sanyo)			Specifications Chart	235.0045.520	2
Okidata			Specifications Chart	235.0045.511	2	P1340 (Toshiba America)		
Microline 182/182 TTY/183			PR 5500 (Sanyo)			Specifications Chart	235.0045.516	2
Specifications Chart	235.0045.502	2	Specifications Chart	235.0045.511	2	P2000 (ALPS America)		
Microline 192			Premiere 35 (Citizen America)			Specifications Chart	235.0045.002	2
Specifications Chart	235.0045.502	2	Specifications Chart	235.0045.009	2	P32CQ1 (Xerox)		
Microline 193			Primage 100 (Primages)			Specifications Chart	235.0045.520	2
Specifications Chart	235.0045.503	2	Specifications Chart	235.0045.506	2	P341 (Toshiba America)		
Okidata 120			Primage 90 (Primages)			Specifications Chart	235.0045.516	2
Specifications Chart	235.0045.503	2	Specifications Chart	235.0045.506	2	P351 (Toshiba America)		
Okimate 10			Primages			Specifications Chart	235.0045.517	2
Specifications Chart	235.0045.503	2	Primage 100			P38 (Xerox)		
Okimate 20			Specifications Chart	235.0045.506	2	Specifications Chart	235.0045.521	2
Specifications Chart	235.0045.503	2	Primage 90			QMS		
Pacemarc 2410			Specifications Chart	235.0045.506	2	QMS Lasergrafix 1200		
Specifications Chart	235.0045.503	2	Prime Computer			Specifications Chart	235.0045.508	2
Okidata 120 (Okidata)			3126			QMS Lasergrafix 2400		
Specifications Chart	235.0045.503	2	Specifications Chart	235.0045.506	2	Specifications Chart	235.0045.508	2
Okimate 10 (Okidata)			3173/3174			QMS Lasergrafix 800		
Specifications Chart	235.0045.503	2	Specifications Chart	235.0045.506	2	Specifications Chart	235.0045.509	2
Okimate 20 (Okidata)			3185			QMS SmartWriter		
Specifications Chart	235.0045.503	2	Specifications Chart	235.0045.506	2	Specifications Chart	235.0045.509	2
Olivetti			3226			QMS-PS 800		
DM580			Specifications Chart	235.0045.507	2	Specifications Chart	235.0045.509	2
Specifications Chart	235.0045.503	2	3273/3274			QMS Lasergrafix 1200 (QMS)		
DY250/450			Specifications Chart	235.0045.507	2	Specifications Chart	235.0045.508	2
Specifications Chart	235.0045.504	2	Princeton Graphic Systems			QMS Lasergrafix 2400 (QMS)		
Olympia USA			HX-12			Specifications Chart	235.0045.508	2
Compact NP			Specifications Chart	236.0045.012	2	QMS Lasergrafix 800 (QMS)		
Specifications Chart	235.0045.504	2	HX-12E			Specifications Chart	235.0045.509	2
Compact RO			Specifications Chart	236.0045.012	2	QMS SmartWriter (QMS)		
Specifications Chart	235.0045.504	2	HX-9			Specifications Chart	235.0045.509	2
ESW 3000			Specifications Chart	236.0045.012	2	QMS PS 800 (QMS)		
Specifications Chart	235.0045.504	2	HX-9E			Specifications Chart	235.0045.509	2
Pacemarc 2410 (Okidata)			Specifications Chart	236.0045.012	2	Quadchrome (Quadram)		
Specifications Chart	235.0045.503	2	MAX-12			Specifications Chart	236.0045.013	2
Panasonic Industrial			Specifications Chart	236.0045.012	2	Quadchrome II (Quadram)		
BT-P4500D			SR-12			Specifications Chart	236.0045.013	2
Specifications Chart	236.0045.010	2	Specifications Chart	236.0045.012	2	QuadLaser (Quadram)		
DT-D1000G			SR-12P			Specifications Chart	235.0045.509	2
Specifications Chart	236.0045.010	2	Specifications Chart	236.0045.013	2	Model 930		
DT-D1300D			Printek			Specifications Chart	235.0045.507	2
Specifications Chart	236.0045.010	2	Model 910			Model 930		
DT-H103			Specifications Chart	235.0045.507	2	Specifications Chart	235.0045.507	2
Specifications Chart	236.0045.011	2	Model 920					
DT-M140			Specifications Chart	235.0045.507	2			
Specifications Chart	236.0045.011	2						

ALPHABETICAL LISTING

QUADRAM

TI 860 XL (TEXAS INSTRUMENTS)

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Quadram			PR 5200			STX 80 (Star Micronics)		
Amberchrome			Specifications Chart	235.0045.511	2	Specifications Chart	235.0045.513	2
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Quadchrome			Specifications Chart	235.0045.511	2	Specifications Chart	235.0045.036	2
Specifications Chart	236.0045.013	2	SA1000 (Sakata USA)					
Quadchrome II			Specifications Chart	236.0045.015	2			
Specifications Chart	236.0045.013	2	SA1500 (Sakata USA)			Tandy (Radio Shack)		
QuadLaser			Specifications Chart	236.0045.015	2	CGP 220		
Specifications Chart	235.0045.509	2	SCI Systems			Specifications Chart	235.0045.313	2
Quasjet			1080/1180 Ticket Printer			DMP 105 Dot Matrix Printer		
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Quasjet (Quadram)			1110/1100			DMP 130		
Specifications Chart	235.0045.509	2	Specifications Chart	235.0045.511	2	Specifications Chart	235.0045.514	2
Qume			SC100 (Sakata USA)			DMP 2100		
LaserTEN/ LaserTEN PLUS			Specifications Chart	236.0045.015	2	Specifications Chart	235.0045.514	2
Specifications Chart	235.0045.509	2	SC150 (Sakata USA)			DMP 2200		
LetterPro Plus			Specifications Chart	236.0045.015	2	Specifications Chart	235.0045.514	2
Specifications Chart	235.0045.510	2	SC200 (Sakata USA)			DMP 430		
LetterPro 20			Specifications Chart	236.0045.015	2	Specifications Chart	235.0045.514	2
Specifications Chart	235.0045.510	2	SC300P (Sakata USA)			DWP 220		
SPRINT 11/40 PLUS			Specifications Chart	236.0045.015	2	Specifications Chart	235.0045.514	2
Specifications Chart	235.0045.510	2	SG1000 (Sakata USA)			DWP 510		
SPRINT 11/55 PLUS			Specifications Chart	236.0045.016	2	Specifications Chart	235.0045.514	2
Specifications Chart	235.0045.510	2	SG1500 (Sakata USA)			TRP 100 Thermal Ribbon Printer		
SPRINT 11/90 PLUS			Specifications Chart	236.0045.016	2	Specifications Chart	235.0045.515	2
Specifications Chart	235.0045.510	2	Siemens AG			Tatung		
			PT 88			CM-1380		
RCA New Product Division			Specifications Chart	235.0045.512	2	Specifications Chart	236.0045.017	2
CD-240			PT 89			Taxan		
Specifications Chart	236.0045.014	2	Specifications Chart	235.0045.512	2	115/116		
MA-121			2712 M203			Specifications Chart	236.0045.017	2
Specifications Chart	236.0045.014	2	Specifications Chart	235.0045.512	2	121/122		
MA-122			Smith-Corona			Specifications Chart	236.0045.017	2
Specifications Chart	236.0045.014	2	D-100			220		
MB-121			Specifications Chart	235.0045.512	2	Specifications Chart	236.0045.018	2
Specifications Chart	236.0045.014	2	D-200			400		
MB-122			Specifications Chart	235.0045.512	2	Specifications Chart	236.0045.018	2
Specifications Chart	236.0045.014	2	D-300			410/411		
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I-300 Specifications Chart	234.0045.303	2	CPS-68 (Intercontinental Micro Systems) Specifications Chart	234.0045.204	2	DECISION S/1000 (The Software Connection)	221.0035.016	2
CLK-240 (Dual Systems) Specifications Chart	234.0045.202	2	CPU 286 (VIASYN) Specifications Chart	234.0045.016	2	Designers & Builders of Information Systems (DBIS) Data Base Information System (DBIS)	221.0035.006	2
CMEM (Dual Systems) Specifications Chart	234.0045.005	2	CPU 32016 (VIASYN) Specifications Chart	234.0045.016	2	Device Master Board (Tecmar) Specifications Chart	234.0045.123	2
Coax/3270 (Emulex) Specifications Chart	234.0045.109	2	CPU 68K (VIASYN) Specifications Chart	234.0045.016	2	dGRAPH (Fox & Geller)	217.0035.010	1
Coax/3270 (Persyst) Specifications Chart	234.0045.109	2						
Colex Colex VME Board-level computer Specifications Chart	234.0045.003	2						

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DI-3000 (PRECISION VISUALS)

GRAFALC (MIRACLE COMPUTING)

Description	Report No.	Vol. No.	Description	Report No.	Vol. No.	Description	Report No.	Vol. No.
DI-3000 (Precision Visuals)	217.0035.022	1	Dynamic Memory Board (Tecmar)	234.0045.013	2	WMAZ-4 Series		
Diagram-Master (Decision Resources)	217.0035.007	1	Specifications Chart			Specifications Chart	234.0045.008	2
Digigraphic Systems			Eagle Enterprises	221.0035.007	2	Executive Presentation Kit (Koala Technologies)	217.0035.015	1
COM PLUS			CITATION			Expanded Quadboard (Quadram)		
Specifications Chart	234.0045.106	2	EasyFile (Information Unlimited Software (IUS))	221.0035.009	2	Specifications Chart	234.0045.206	2
COM 4			EAZYGRAF (Miracle Computing)	217.0035.019	1	Expansion Memory MPIO (AST Research)		
Specifications Chart	234.0045.106	2	ECCELL (Orchid Technology)			Specifications Chart	234.0045.001	2
COM 8			Specifications Chart	234.0045.205	2	EXTEND 384M (Digigraphic Systems)		
Specifications Chart	234.0045.106	2	Electro Design			Specifications Chart	234.0045.004	2
EXTEND 384M			COMBI-4			EXTEND 512M (Digigraphic Systems)		
Specifications Chart	234.0045.004	2	Specifications Chart	234.0045.202	2	Specifications Chart	234.0045.004	2
EXTEND 512M			MEMCARD			EXTEND 512X (Digigraphic Systems)		
Specifications Chart	234.0045.004	2	Specifications Chart	234.0045.006	2	Specifications Chart	234.0045.004	2
EXTEND 512X			Electronic Modular Systems			Extended Bit-Map Graphics Module (Digital Equipment)		
Specifications Chart	234.0045.004	2	CPU-1			Specifications Chart	234.0045.304	2
Digital Equipment			Electronic Modular Systems			Extended Multi-function Card (Quadram)		
Extended Bit-Map Graphics Module			CPU-2RT			Specifications Chart	234.0045.206	2
Specifications Chart	234.0045.304	2	Specifications Chart	234.0045.202	2			
Graphics Option			ICC-1			FABS/PC (Computer Control Systems)	221.0035.004	2
Specifications Chart	234.0045.305	2	Specifications Chart	234.0045.109	2	Fast Feedback Technologies		
MicroVAX and PDP-11/73 1MB			MEM-2			Flashcard		
Memory Add-On			Specifications Chart	234.0045.006	2	Specifications Chart	234.0045.008	2
Specifications Chart	234.0045.005	2	VME-488			M-500		
Rainbow 100 Memory Adapter Option			Specifications Chart	234.0045.109	2	Specifications Chart	234.0045.110	2
Specifications Chart	234.0045.005	2	EMC			1553-Net		
256KB Memory Option			MAXEM 1			Specifications Chart	234.0045.110	2
Specifications Chart	234.0045.004	2	Specifications Chart	234.0045.006	2	Fast Graphs (Innovative Software)	217.0035.015	1
512KB Memory Option			MAXEM 2			filePro 16 (The Small Computer Company)		
Specifications Chart	234.0045.004	2	Specifications Chart	234.0045.202	2	Specifications Chart	221.0035.016	2
8087 Option			EMEM (Dual Systems)			Flashcard (Fast Feedback Technologies)		
Specifications Chart	234.0045.004	2	Specifications Chart	234.0045.005	2	Specifications Chart	234.0045.008	2
Display Station Emulator Adapter (IBM)			Emu-Tek (FTG Data Systems)	217.0035.010	1	Fox & Geller		
Specifications Chart	234.0045.111	2	Emulex			dGRAPH	217.0035.010	1
DMB 192-192 (Univation)			BoB Display Adaptor			Grafox	217.0035.010	1
Specifications Chart	234.0045.015	2	Specifications Chart	234.0045.305	2	Freelance (Graphic Communications)	217.0035.011	1
DMB 768-768 (Univation)			Coax/3270			Friday! (Ashton-Tate)	221.0035.003	2
Specifications Chart	234.0045.016	2	Specifications Chart	234.0045.109	2	Frontier Technologies		
DMB-384 (Univation)			Color Combo			AdCom 2 Advanced Communications		
Specifications Chart	234.0045.016	2	Specifications Chart	234.0045.203	2	Controller		
DMEM (Dual Systems)			DCP-88/VM Communications			Specifications Chart	234.0045.110	2
Specifications Chart	234.0045.005	2	Processor			AdCom 2-M Advanced		
DM12-10 (Qua Tech)			Specifications Chart	234.0045.109	2	Communications Controller		
Specifications Chart	234.0045.118	2	Mega Memory			Specifications Chart	234.0045.110	2
DM8-10 (Qua Tech)			Specifications Chart	234.0045.007	2	AdCom 2-1 Intelligent Advanced		
Specifications Chart	234.0045.118	2	Mini-Mono Card			Communications Controller		
Dr. Halo II (Media Cybermetrics)	217.0035.016	1	Specifications Chart	234.0045.305	2	Specifications Chart	234.0045.110	2
DS-201 (Qua Tech)			Mono Combo			AdCom 2-1 Intelligent Advanced		
Specifications Chart	234.0045.118	2	Specifications Chart	234.0045.203	2	Communications Controller		
DSDP-401 (Qua Tech)			Multiple Protocol Communications			Specifications Chart	234.0045.110	2
Specifications Chart	234.0045.118	2	Controller			CADgraph 2		
Dual Systems			Specifications Chart	234.0045.109	2	Specifications Chart	234.0045.306	2
AIM-12			PC/Memory Plus Clock			IHR 2gc-001 Intelligent High		
Specifications Chart	234.0045.108	2	Specifications Chart	234.0045.007	2	Resolution Graphics Controller		
AOM-12			PC/Short Memory			Specifications Chart	234.0045.306	2
Specifications Chart	234.0045.108	2	SB384 Time Spectrum			MEMBD-001		
CLK-240			Specifications Chart	234.0045.203	2	Specifications Chart	234.0045.008	2
Specifications Chart	234.0045.202	2	Short-Port Color Card			FTG Data Systems		
CMEM			Specifications Chart	234.0045.305	2	Emu-Tek	217.0035.010	1
Specifications Chart	234.0045.005	2	TI Time Spectrum					
CPU-6800M L10			Specifications Chart	234.0045.203	2	G/Net Lan I/F card (Gateway Communications)		
Specifications Chart	234.0045.005	2	Energraphics (Enertronics Research)	217.0035.009	1	Specifications Chart	234.0045.111	2
DMEM			Enertronics Research			Game Control Adapter (IBM)		
Specifications Chart	234.0045.005	2	Energraphics	217.0035.009	1	Specifications Chart	234.0045.112	2
EMEM			Enhanced Display Station Emulation Adapter (IBM)			Gamma Link		
Specifications Chart	234.0045.005	2	Specifications Chart	234.0045.112	2	GammaCom		
EPROM			Enterprise Computer System			Specifications Chart	234.0045.110	2
Specifications Chart	234.0045.006	2	10301 Versatile Video Display Card			Gateway Communications		
SIO4-DMA			Specifications Chart	234.0045.305	2	G/Net Lan I/F card		
Specifications Chart	234.0045.108	2	10303 STD Bus Color Terminal Card			Specifications Chart	234.0045.111	2
VICA-20			Specifications Chart	234.0045.305	2	WNIM		
Specifications Chart	234.0045.108	2	10611 Parallel I/O Board			Specifications Chart	234.0045.111	2
VMEM-2M			Specifications Chart	234.0045.109	2	General Parametrics		
Specifications Chart	234.0045.006	2	10764 Universal Non-volatile Memory			PictureIt	217.0035.011	1
VMPU-32			Card			General Purpose Interface Bus Adapter (IBM)		
Specifications Chart	234.0045.006	2	Specifications Chart	234.0045.007	2	Specifications Chart	234.0045.112	2
Duncan-Atwell Computerized Technologies			EPROM (Dual Systems)			Geocomp		
Lenicad	217.0035.007	1	Specifications Chart	234.0045.006	2	Geograf	217.0035.011	1
Leniflow/3270-Intelligent			eRAM 80 (Quadram)			Geograf (Geocomp)	217.0035.011	1
Flowcharting System	217.0035.008	1	Specifications Chart	234.0045.310	2	GL/M (Aspect)	217.0035.002	1
Lenimed-Medical/Dental Graphic			ESP Computer Resources			Gold Quadboard (Quadram)		
Presentation System	217.0035.008	1	dataKEYper	221.0035.007	2	Specifications Chart	234.0045.206	2
Lenipen/PC-Intelligent Color Graphics			Eventide			Golems		
System	217.0035.008	1	WKBP-16			Sequitur	221.0035.007	2
Leniplot-The Graphical Plotting System	217.0035.009	1	Specifications Chart	234.0045.007	2	GRAFALC (Miracle Computing)	217.0035.020	1
Leniprez-Executive Graphics &			WKBP-4					
Presentation System	217.0035.009	1	Specifications Chart	234.0045.007	2			

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GRAFIX PARTNER (BRIGHTBILL-ROBERTS AND COMPANY LTD.)

INTERSTATE VOICE PRODUCTS

Description	Report No.	Vol. No.	Description	Report No.	Vol. No.	Description	Report No.	Vol. No.
GraFIX PARTNER (Brightbill-Roberts and Company Ltd.)	217.0035.003	1	I/O Plus II (AST Research)	234.0045.201	2	IDEAmax 384	234.0045.203	2
GRAFMAKER (Precision Visuals)	217.0035.022	1	Specifications Chart			Specifications Chart		
GRAFMATIC (Microcompatibles)	217.0035.018	1	IBM			IDEAmini	234.0045.114	2
Grafox (Fox & Geller)	217.0035.010	1	Asynchronous Communications Adapter			Specifications Chart		
GraTalk (Redding Group)	217.0035.023	1	Specifications Chart	234.0045.111	2	IDEAnet	234.0045.114	2
Grande Byte (STB Systems)			Binary Synchronous Communications Adapter			Specifications Chart	234.0045.204	2
Specifications Chart	234.0045.013	2	Specifications Chart	234.0045.111	2	Supermax (SMX)		
Graph Dazzler (Sigma Designs)			Color/Graphics Monitor Adapter			Specifications Chart		
Specifications Chart	234.0045.311	2	Specifications Chart	234.0045.306	2	IDEA Minimax (MPR) (IDE Associates)	234.0045.010	2
Graph Dazzler II (Sigma Designs)			Combination Adapter (# 6000)			Specifications Chart		
Specifications Chart	234.0045.311	2	Specifications Chart	234.0045.203	2	IDEAmax 384 (IDE Associates)	234.0045.203	2
Graphic Communications			Display Station Emulator Adapter			Specifications Chart		
Freelance	217.0035.011	1	Specifications Chart	234.0045.111	2	IEEE-488 Interface Board (Scientific Solutions)		
Graphwriter	217.0035.012	1	Enhanced Display Station Emulation Adapter			Specifications Chart	234.0045.121	2
Graphics Department (Sensible Software)	217.0035.023	1	Specifications Chart	234.0045.112	2	IHR 2gc-001 Intelligent High Resolution Graphics Controller (Frontier Technologies)		
Graphics Master Board (Tecmar)			Game Control Adapter			Specifications Chart	234.0045.306	2
Specifications Chart	234.0045.312	2	Specifications Chart	234.0045.112	2	Image Printer II (Sensible Software)	217.0035.024	1
Graphics Option (Digital Equipment)			General Purpose Interface Bus Adapter			Imagemedia Technologies		
Specifications Chart	234.0045.305	2	Specifications Chart	234.0045.112	2	MicroCAD	217.0035.014	1
Graphics Software Systems			Graphics Memory Expansion Card (# 1201)			IMiGIT (Chrous Data Systems)	217.0035.005	1
GSS-Drivers	217.0035.012	1	Specifications Chart	234.0045.009	2	Imsi Software Publishers		
GSS-Terminal	217.0035.012	1	IBM PC AT/370 Option Kit			PC Paintbrush	217.0035.014	1
Graphix Plus II (STB Systems)			Specifications Chart	234.0045.112	2	4-Point Graphics	217.0035.014	1
Specifications Chart	234.0045.312	2	IBM PC Data Acquisition and Control Adapter			InfoPro (Professional Software)	221.0035.014	2
GraphPak (AST Research)			Specifications Chart	234.0045.112	2	Information Builders		
Specifications Chart	234.0045.201	2	IBM PC Enhanced Graphics Adapter (# 1200)			PC/FOCUS	221.0035.008	2
GraphPlan (Chang Labs)	217.0035.004	1	Specifications Chart	234.0045.306	2	Information Technologies		
Graphwriter (Graphic Communications)	217.0035.012	1	Monochrome Display and Printer Adapter (# 4900)			Linkup Coax		
Grappier C (Orange Micro)			Specifications Chart	234.0045.307	2	Specifications Chart	234.0045.114	2
Specifications Chart	234.0045.308	2	Professional Graphics Controller (# 1501)			Linkup XT		
Grappier CD (Orange Micro)			Specifications Chart	234.0045.307	2	Specifications Chart	234.0045.114	2
Specifications Chart	234.0045.308	2	Prototype Adapter			Linkup XT+		
Grappier + (Orange Micro)			Specifications Chart	234.0045.112	2	Specifications Chart	234.0045.115	2
Specifications Chart	234.0045.308	2	Prototype Card (# 1400)			Linkup 1		
GSS-Drivers (Graphics Software Systems)	217.0035.012	1	Specifications Chart	234.0045.112	2	Specifications Chart	234.0045.114	2
GSS-Terminal (Graphics Software Systems)	217.0035.012	1	SDLC Communications Adapter			Information Unlimited Software (IUS)		
GXB-1000A (Matrox Electronic Systems)			Specifications Chart	234.0045.113	2	EasyFile	221.0035.009	2
Specifications Chart	234.0045.307	2	Serial/Parallel Adapter			InfoStar (MicroPro International)	221.0035.012	2
Halo (Media Cybermetrics)	217.0035.017	1	Specifications Chart	234.0045.113	2	Innovation 1007 CGP (Bronson Electronics)		
Hayes Microcomputer Products			XT/370 Option Kit			Specifications Chart	234.0045.302	2
Please	221.0035.007	2	Specifications Chart	234.0045.113	2	Innovation 1008 RAM Board (Bronson Electronics)		
Helix Systems & Development			128KB Memory Expansion Option (# 0209)			Specifications Chart	234.0045.002	2
Helix ABM			Specifications Chart	234.0045.009	2	Innovative Software		
Specifications Chart	234.0045.008	2	256KB Memory Expansion (# 1209)			Fast Graphs	217.0035.015	1
Helix PC Bubble Disk II			Specifications Chart	234.0045.009	2	Institute for Scientific Information		
Specifications Chart	234.0045.008	2	3278/79 Emulation Adapter			Sci-Mate Personal Data Manager	221.0035.009	2
Helix VME Bubble Module			Specifications Chart	234.0045.111	2	The Searcher	221.0035.009	2
Specifications Chart	234.0045.008	2	512KB Memory Expansion Option (# 0203)			Intel Personal Computer Enhancement Operation		
Hercules Color Card (Hercules Computer Technology)			Specifications Chart	234.0045.009	2	Above Board/AT		
Specifications Chart	234.0045.306	2	64K/256K Memory Expansion Option (# 1013)			Specifications Chart	234.0045.010	2
Hercules Computer Technology			Specifications Chart	234.0045.009	2	Above Board/PC		
Hercules Color Card			64KB Memory and Display Expansion (# 0007)			Specifications Chart	234.0045.010	2
Specifications Chart	234.0045.306	2	IBM PC AT/370 Option Kit (IBM)			IntelliModem (Bizcomp)		
Hercules Graphics Card			Specifications Chart	234.0045.112	2	Specifications Chart	234.0045.105	2
Specifications Chart	234.0045.306	2	IBM PC Data Acquisition and Control Adapter (IBM)			Interactive Picture Systems		
Hercules Graphics Card (Hercules Computer Technology)			Specifications Chart	234.0045.112	2	Movie Maker	217.0035.015	1
Specifications Chart	234.0045.306	2	IBM PC Enhanced Graphics Adapter (# 1200) (IBM)			Intercontinental Micro Systems		
Holiday Software			Specifications Chart	234.0045.109	2	CPS-B6A		
Database 3	221.0035.008	2	ICC-1 (Electronic Modular Systems)			Specifications Chart	234.0045.204	2
Hostess 4/8 (Control Systems)			Specifications Chart	234.0045.113	2	CPS-16X		
Specifications Chart	234.0045.106	2	IDE Associates			Specifications Chart	234.0045.204	2
HotLink (Orange Micro)			IDEA Minicomm			CPS-68		
Specifications Chart	234.0045.309	2	Specifications Chart	234.0045.113	2	Specifications Chart	234.0045.204	2
Hoyle & Hoyle Software			IDEA Minimax (MPR)			CPZ-186		
QUERY12	221.0035.008	2	Specifications Chart	234.0045.010	2	Specifications Chart	234.0045.204	2
Human Systems Dynamics			IDEAcomm 1200			Specifications Chart	234.0045.204	2
Calcu-Plot	217.0035.013	1	Specifications Chart	234.0045.113	2	CPZ-4800X		
HyperGraphics			IDEAcomm 3278			Specifications Chart	234.0045.204	2
Hypergraphics Authoring Graphics System			Specifications Chart	234.0045.113	2	LAN-PC		
HyperGraphics Business Presentation Graphics System	217.0035.013	1	IDEAcomm 5251			Specifications Chart	234.0045.115	2
	217.0035.013	1	Specifications Chart	234.0045.114	2	256KMB		
			IDEAgraph (GPR)			Specifications Chart	234.0045.010	2
			Specifications Chart	234.0045.307	2	International Software Alliance		
						Btrieve Record Manager	221.0035.009	2
						Interstate Voice Products		
						CSRB (Connected Speech Recognition Board)		
						Specifications Chart	234.0045.115	2
						VRT 300		
						Specifications Chart	234.0045.115	2

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IT SOFTWARE

ORCHID TECHNOLOGY

Description	Report No.	Vol. No.	Description	Report No.	Vol. No.	Description	Report No.	Vol. No.
IT Software			SX-900			MSI-241 (Qua Tech)		
KeepIT	221.0035.010	2	Specifications Chart	234.0045.308	2	Specifications Chart	234.0045.118	2
JRAM 2 (Tall Tree Systems)			MAXEM 1 (EMC)			MSR Series (Macrotech International)		
Specifications Chart	234.0045.208	2	Specifications Chart	234.0045.006	2	Specifications Chart	234.0045.010	2
JRAM-AT (Tall Tree Systems)			MAXEM 2 (EMC)			Multi I/O (AST Research)		
Specifications Chart	234.0045.208	2	Specifications Chart	234.0045.202	2	Specifications Chart	234.0045.103	2
KeepIT (IT Software)			Maximizer (Sigma Designs)			Multi-Display Card (Paradise Systems)		
Key Software	221.0035.010	2	Specifications Chart	234.0045.207	2	Specifications Chart	234.0045.309	2
ResQ	221.0035.010	2	Maxwell 1200 PC (Racal-Vadic)			Multi-Soft		
KeyChart (Softkey Software Products)			Specifications Chart	234.0045.121	2	Multi-Trieve	221.0035.013	2
Knowledge Man (Micro Data Base Systems)	217.0035.024	1	Maxwell 2400 PC (Racal-Vadic)			Multi-Tech Systems		
Koala Technologies			Specifications Chart	234.0045.121	2	Multi-Modem		
Executive Presentation Kit	217.0035.015	1	MDBS III (Micro Data Base Systems)			Specifications Chart	234.0045.116	2
Lab Master (Scientific Solutions)			MDRIVE/H (VIASYN)			Multi-Modem IIe		
Specifications Chart	234.0045.121	2	Specifications Chart	234.0045.017	2	Specifications Chart	234.0045.116	2
Lab Tender (Scientific Solutions)			Media Cybermetrics			Multi-Modem PC		
Specifications Chart	234.0045.121	2	Dr. Halo II	217.0035.016	1	Specifications Chart	234.0045.116	2
LAN-PC (Intercontinental Micro Systems)			Halo	217.0035.017	1	Multicore (Quadram)		
Specifications Chart	234.0045.115	2	Nimbus	217.0035.017	1	Specifications Chart	234.0045.206	2
Lanier Business Products			Mega Memory (Emulex)			Multigraph II (Profit Systems)		
PC-Touch			Specifications Chart	234.0045.007	2	Specifications Chart	234.0045.310	2
Specifications Chart	234.0045.115	2	Mega Memory (Persyst)			Multiple Protocol Communications Controller (Emulex)		
LANS100 (Intercontinental Micro Systems)			Specifications Chart	234.0045.201	2	Specifications Chart	234.0045.109	2
Specifications Chart	234.0045.115	2	MEM-2 (Electronic Modular Systems)			Multiple Protocol Communications Controller (Persyst)		
Lazyfont (AlphaBit Communications)			Specifications Chart	234.0045.006	2	Specifications Chart	234.0045.109	2
LCS/Telegraphics	217.0035.001	1	MEMBD-001 (Frontier Technologies)			Natural Microsystems		
TelePaint	217.0035.016	1	Specifications Chart	234.0045.008	2	Watson		
Lenicad (Duncan-Atwell Computerized Technologies)			MEMCARD (Electro Design)			Specifications Chart	234.0045.116	2
Specifications Chart	217.0035.007	1	Specifications Chart	234.0045.006	2	NCR		
Leniflow/3270-Intelligent Flowcharting System (Duncan-Atwell Computerized Technologies)			Memory Companion/PC (STB Systems)			NCR/32-796A-16		
Specifications Chart	217.0035.008	1	Specifications Chart	234.0045.013	2	Specifications Chart	234.0045.011	2
Lenimed-Medical/Dental Graphic Presentation System (Duncan-Atwell Computerized Technologies)			MI-286 80286/Z80H Dual Processor S-100 CPU board (Macrotech International)			NCR/32-796A-16 (NCR)		
Specifications Chart	217.0035.008	1	Specifications Chart	234.0045.010	2	Specifications Chart	234.0045.011	2
Lenipen/PC-Intelligent Color Graphics System (Duncan-Atwell Computerized Technologies)			Micro Control Systems			Neptune 64K card (Titan Technologies)		
Specifications Chart	217.0035.008	1	Advanced Space Graphics System	217.0035.017	1	Specifications Chart	234.0045.210	2
Leniplot-The Graphical Plotting System (Duncan-Atwell Computerized Technologies)			CADKEY	217.0035.018	1	Net 10 (VIASYN)		
Specifications Chart	217.0035.009	1	Micro Data Base Systems			Specifications Chart	234.0045.125	2
Leniprez-Executive Graphics & Presentation System (Duncan-Atwell Computerized Technologies)			Knowledge Man	221.0035.011	2	Net 100 (VIASYN)		
Specifications Chart	217.0035.009	1	MDBS III	221.0035.011	2	Specifications Chart	234.0045.125	2
Liberty (Quadram)			MICRO-AP			Net 101 (VIASYN)		
Specifications Chart	234.0045.011	2	Selector V	221.0035.012	2	Specifications Chart	234.0045.125	2
Linkup Coax (Information Technologies)			MICROBASE (Compumax)			Net 11 (VIASYN)		
Specifications Chart	234.0045.114	2	Specifications Chart	221.0035.003	2	Specifications Chart	234.0045.125	2
Linkup XT (Information Technologies)			MICROCAD (Imagemedia Technologies)			Network revelation (Cosmos)		
Specifications Chart	234.0045.114	2	Microcompables	217.0035.014	1	Specifications Chart	217.0035.017	1
Linkup XT+ (Information Technologies)			GRAFMATIC	217.0035.018	1	Notebook (Protemp)		
Specifications Chart	234.0045.115	2	OMNILOT	217.0035.018	1			
Linkup 1 (Information Technologies)			PLOTMATIC	217.0035.019	1	Omicron Software		
Specifications Chart	234.0045.114	2	Micrografx			PLOTMAX	217.0035.021	1
LJK Enterprises			PC-Draw	217.0035.019	1	OMNIFILE (S.S.R.)		
Data Perfect	221.0035.010	2	MicroPro International			Specifications Chart	221.0035.017	2
Lumena (Tandy (Radio Shack))			ChartStar	217.0035.019	1	OMNILOT (Microcompables)		
	217.0035.025	1	InfoStar	221.0035.012	2	Specifications Chart	217.0035.018	1
Macrotech International			Microrim			ORACLE		
ADIT			R:Base 4000	221.0035.012	2	ORACLE Version3	221.0035.013	2
Specifications Chart	234.0045.116	2	MicroVAX and PDP-11/73 1MB Memory Add-On (Digital Equipment)			Orange Interface (Orange Micro)		
MI-286 80286/Z80H Dual Processor S-100 CPU board			Specifications Chart	234.0045.005	2	Specifications Chart	234.0045.309	2
Specifications Chart	234.0045.010	2	Mini-Mono Card (Emulex)			Orange Micro		
MSR Series			Specifications Chart	234.0045.305	2	Buffered Grappler+		
Specifications Chart	234.0045.010	2	MIP-512 (Matrox Electronic Systems)			Specifications Chart	234.0045.308	2
ST Series S-100 Static CMOS Memory			Specifications Chart	234.0045.307	2	Bufferpak		
Specifications Chart	234.0045.011	2	Miracle Computing			Specifications Chart	234.0045.308	2
Madwest Software			EAZYGRAF	217.0035.019	1	Grappler C		
Amperdump	217.0035.016	1	GRAFCALC	217.0035.020	1	Specifications Chart	234.0045.308	2
Maestro AT Multifunction (Tecmar)			Misosys			Grappler CD		
Specifications Chart	234.0045.209	2	ZGRAPH	217.0035.020	1	Specifications Chart	234.0045.308	2
Magic Memory (ARTSCI)			Model 240 PC Scanner (Caere)			Grappler+		
Martin Marietta Data			Specifications Chart	234.0045.105	2	Specifications Chart	234.0045.308	2
RAMIS II	221.0035.011	2	Modular Graphics Card (Paradise Systems)			HotLink		
Matrox Electronic Systems			Specifications Chart	234.0045.309	2	Specifications Chart	234.0045.309	2
GXB-1000A			Mono Combo (Emulex)			Orange Interface		
Specifications Chart	234.0045.307	2	Specifications Chart	234.0045.203	2	Specifications Chart	234.0045.309	2
MIP-512			Mono Plus II (STB Systems)			Serial Grappler		
Specifications Chart	234.0045.307	2	Specifications Chart	234.0045.312	2	Specifications Chart	234.0045.309	2
Mosaic Software			Monochrome Display and Printer Adapter (#4900) (IBM)			Orchid Technology		
SOFTPLOT/BGL	217.0035.020	1	Specifications Chart	234.0045.307	2	Blossom		
Movie Maker (Interactive Picture Systems)			MonoGraphPlus (AST Research)			Specifications Chart	234.0045.205	2
Specifications Chart	217.0035.015	1	Specifications Chart	234.0045.302	2	Conquest		
MP Mini (AST Research)			Mosaic Software			Specifications Chart	234.0045.205	2
Specifications Chart	234.0045.001	2	SOFTPLOT/BGL	217.0035.020	1	CramRAM		
			Movie Maker (Interactive Picture Systems)			Specifications Chart	234.0045.205	2
			Specifications Chart	217.0035.015	1	ECCELL		
						Specifications Chart	234.0045.205	2
						PCnet		
						Specifications Chart	234.0045.116	2
						PCnet Blossom		
						Specifications Chart	234.0045.117	2

ALPHABETICAL LISTING

PAL PLUS (DATEC)

RACAL-VADIC

Description	Report No.	Vol. No.	Description	Report No.	Vol. No.	Description	Report No.	Vol. No.
PCturbo186 Processor Card			PLOTMATIC (Microcompatibles)	217.0035.019	1	Quadcolor II (Quadram)		
Specifications Chart	234.0045.011	2	PLOTRAX (Omicron Software)	217.0035.021	1	Specifications Chart	234.0045.310	2
Turbo Graphics Controller			PMD-10 (Qua Tech)			Quadgraph (Quadram)		
Specifications Chart	234.0045.309	2	Specifications Chart	234.0045.118	2	Specifications Chart	234.0045.311	2
PAL Plus (Datec)			Power Draw (PowerSoft)	217.0035.022	1	Quadjr Memory Board (Quadram)		
Specifications Chart	234.0045.106	2	Powerbase			Specifications Chart	234.0045.012	2
Palette Master (Quadram)			Powerbase 2.1	221.0035.014	2	QuadMEG ATX (Quadram)		
Specifications Chart	234.0045.310	2	PowerLink (Tecmar)			Specifications Chart	234.0045.012	2
PalSoftware			Specifications Chart	234.0045.123	2	QuadMEMjr. (Quadram)		
ARTPAK Presentation System	217.0035.021	1	PowerSoft			Specifications Chart	234.0045.012	2
Paradise Systems			Power Draw	217.0035.022	1	Quadram		
Modular Graphics Card			Precision Visuals			Asher C1200		
Specifications Chart	234.0045.309	2	DI-3000	217.0035.022	1	Specifications Chart	234.0045.119	2
Multi-Display Card			GRAFMAKER	217.0035.022	1	Buffered Serial Printer Adaptor		
Specifications Chart	234.0045.309	2	Preview! (AST Research)			Specifications Chart	234.0045.310	2
5-Pack			Specifications Chart	234.0045.302	2	eRAM 80		
Specifications Chart	234.0045.205	2	Primesoft			Specifications Chart	234.0045.310	2
PA100 (Avatar Technologies)			The Prime Plotter	217.0035.023	1	Expanded Quadboard		
Specifications Chart	234.0045.104	2	Probe Group			Specifications Chart	234.0045.206	2
PA100 Turbo (Avatar Technologies)			Probe	221.0035.014	2	Extended Multi-function Card		
Specifications Chart	234.0045.104	2	Professional Graphics Controller			Specifications Chart	234.0045.206	2
PC Illustrator (Computer Graphics Group)	217.0035.005	1	(# 1501) (IBM)	234.0045.307	2	Gold Quadboard		
PC Modem Half Card (Ven-Tel)			Specifications Chart			Specifications Chart	234.0045.206	2
Specifications Chart	234.0045.124	2	Professional Software			Liberty		
PC Modem 1200 (Ven-Tel)			InfoPro	221.0035.014	2	Specifications Chart	234.0045.011	2
Specifications Chart	234.0045.124	2	PROFILE III Plus (Tandy (Radio Shack))	221.0035.018	2	Multicore		
PC Paintbrush (Imsi Software Publishers)	217.0035.014	1	Profit Systems			Specifications Chart	234.0045.206	2
PC SCAN-NET Model 941 (Caere)			Addram Elite			Palette Master		
Specifications Chart	234.0045.105	2	Specifications Chart	234.0045.205	2	Specifications Chart	234.0045.310	2
PC Technologies			AT Power			Quad 3278		
XTender			Specifications Chart	234.0045.206	2	Specifications Chart	234.0045.119	2
Specifications Chart	234.0045.011	2	Multigraph II			Quad 512+		
PC Video Board (VIASYN)			Specifications Chart	234.0045.310	2	Specifications Chart	234.0045.011	2
Specifications Chart	234.0045.313	2	ProGraf (Computer Graphics Group)	217.0035.005	1	Quad 5251		
PC-Draw (Micrografx)	217.0035.019	1	Protemp			Specifications Chart	234.0045.120	2
PC-Touch (Lanier Business Products)			Notebook	221.0035.014	2	Quadcolor I		
Specifications Chart	234.0045.115	2	Prototype Adapter (IBM)			Specifications Chart	234.0045.310	2
PC/FOCUS (Information Builders)	221.0035.008	2	Specifications Chart	234.0045.112	2	Quadcolor II		
PC/Memory Plus Clock (Emulex)			Prototype Card (# 1400) (IBM)			Specifications Chart	234.0045.310	2
Specifications Chart	234.0045.007	2	Specifications Chart	234.0045.307	2	Quadgraph		
PC/Memory Plus Clock (Persyst)			PS-000 (PSIO Dual Function Interface) (VIASYN)			Specifications Chart	234.0045.311	2
Specifications Chart	234.0045.007	2	Specifications Chart	234.0045.314	2	Quadjr Memory Board		
PC/Short Memory (Emulex)			PS-000 (PSIO Dual Function Interface) (Videx)			Specifications Chart	234.0045.012	2
Specifications Chart	234.0045.007	2	Specifications Chart	234.0045.314	2	Quadlink		
PC/Short Memory (Persyst)			PXB-721 (Qua Tech)			Specifications Chart	234.0045.120	2
Specifications Chart	234.0045.007	2	Specifications Chart	234.0045.119	2	QuadMEG ATX		
PCnet (Orchid Technology)			Q-PRO 4 (QUIC-N-EASI Products)	221.0035.015	2	Specifications Chart	234.0045.012	2
Specifications Chart	234.0045.116	2	Q/LABEL (TCS Software)	221.0035.019	2	QuadMEMjr.		
PCnet Blossom (Orchid Technology)			Qint Database Systems			Specifications Chart	234.0045.012	2
Specifications Chart	234.0045.117	2	QINT/SQL	221.0035.015	2	Quadmodem II		
PCturbo186 Processor Card (Orchid Technology)			Qua Tech			Specifications Chart	234.0045.120	2
Specifications Chart	234.0045.011	2	ADM12-10 Module			Quadnet IX		
Peachtree Software			Specifications Chart	234.0045.117	2	Specifications Chart	234.0045.120	2
Business Graphics System	217.0035.021	1	ADM12-11 Module			Quadnet VI		
Pearlsoft			Specifications Chart	234.0045.117	2	Specifications Chart	234.0045.120	2
Personal PEARL	221.0035.013	2	ADM8-10			Quadport AT		
Personal Data Base (Supersoft)	221.0035.018	2	Specifications Chart	234.0045.117	2	Specifications Chart	234.0045.120	2
Personal PEARL (Pearlsoft)	221.0035.013	2	CTM-10			Quadsprint		
Persyst			Specifications Chart	234.0045.117	2	Specifications Chart	234.0045.012	2
Coax/3270			DM12-10			Quadvue		
Specifications Chart	234.0045.109	2	Specifications Chart	234.0045.118	2	Specifications Chart	234.0045.311	2
DCP-88/VM Communications Processor			DM8-10			Serial Interface Adapter		
Specifications Chart	234.0045.109	2	Specifications Chart	234.0045.118	2	Specifications Chart	234.0045.311	2
Mega Memory			DS-201			Short RAM		
Specifications Chart	234.0045.007	2	Specifications Chart	234.0045.118	2	Specifications Chart	234.0045.012	2
Multiple Protocol Communications Controller			DSDP-401			Silver Quadboard		
Specifications Chart	234.0045.109	2	Specifications Chart	234.0045.118	2	Specifications Chart	234.0045.206	2
PC/Memory Plus Clock			MSI-241			The Data Base Manager	221.0035.015	2
Specifications Chart	234.0045.007	2	Specifications Chart	234.0045.118	2	Quadsprint (Quadram)		
PC/Short Memory			PMD-10			Specifications Chart	234.0045.012	2
Specifications Chart	234.0045.007	2	Specifications Chart	234.0045.118	2	Quadvue (Quadram)		
pfs:File (Software Publishing)	221.0035.016	2	PXB-721			Specifications Chart	234.0045.311	2
PFS:Graph (Software Publishing)	217.0035.025	1	Specifications Chart	234.0045.119	2	Quarter Byte (STB Systems)		
pfs:Report (Software Publishing)	221.0035.017	2	RTM-10			Specifications Chart	234.0045.013	2
Phase Information Machines			Specifications Chart	234.0045.119	2	Qubie		
Brigitte			UIO-10			Basic Time BT6Plus		
Specifications Chart	234.0045.117	2	Specifications Chart	234.0045.119	2	Specifications Chart	234.0045.207	2
Phonagate 2400 (Tecmar)			WSB-10			QUERY12 (Hoyle & Hoyle Software)	221.0035.008	2
Specifications Chart	234.0045.123	2	Quad 3278 (Quadram)			QUIC-N-EASI Products		
PictureIt (General Parametrics)	217.0035.011	1	Specifications Chart	234.0045.119	2	Q-PRO 4	221.0035.015	2
PIK (Business & Professional Software)	217.0035.004	1	Quad 512+ (Quadram)			QVG-123 (DataCube)		
Specifications Chart			Specifications Chart	234.0045.011	2	Specifications Chart	234.0045.304	2
Please (Hayes Microcomputer Products)	221.0035.007	2	Quadcolor I (Quadram)			R:Base 4000 (Microrim)	221.0035.012	2
			Specifications Chart	234.0045.310	2	Racal-Vadic		
						Maxwell 1200 PC		
						Specifications Chart	234.0045.121	2
						Maxwell 2400 PC		
						Specifications Chart	234.0045.121	2

ALPHABETICAL LISTING

RAINBOW 100 MEMORY ADAPTER OPTION (DIGITAL EQUIPMENT)

TITAN TECHNOLOGIES

Description	Report No.	Vol. No.	Description	Report No.	Vol. No.	Description	Report No.	Vol. No.
Rainbow 100 Memory Adapter Option (Digital Equipment)			SDI-SSC			TCS Software		
Specifications Chart	234.0045.005	2	Specifications Chart	234.0045.207	2	Q/LABEL	221.0035.019	2
RAM 22 (VIASYN)			SDI-384			Techland Systems		
Specifications Chart	234.0045.017	2	Specifications Chart	234.0045.207	2	BlueLynx 2780/3780 RJE		
RAM 23 (VIASYN)			Sign-Master (Decision Resources)	217.0035.007	1	Specifications Chart	234.0045.122	2
Specifications Chart	234.0045.017	2	Silver Quadboard (Quadram)			BlueLynx 3270 Gateway		
RAMIS II (Martin Marietta Data)	221.0035.011	2	Specifications Chart	234.0045.206	2	Specifications Chart	234.0045.122	2
RAMPagel (AST Research)			SIO4-DMA (Dual Systems)			BlueLynx 3270 Local		
Specifications Chart	234.0045.001	2	Specifications Chart	234.0045.108	2	Specifications Chart	234.0045.122	2
RamStak (AST Research)			SixPakPlus (AST Research)			BlueLynx 3270 Remote		
Specifications Chart	234.0045.002	2	Specifications Chart	234.0045.202	2	BlueLynx 3270/BSC		
RAMvantagel (AST Research)			The Small Computer Company			Specifications Chart	234.0045.122	2
Specifications Chart	234.0045.002	2	filePro 16	221.0035.016	2	BlueLynx 5251 Model 11		
Reachi (AST Research)			Softel			Specifications Chart	234.0045.122	2
Specifications Chart	234.0045.103	2	Videogram	217.0035.024	1	BlueLynx 5251 Model 12		
Redding Group			Softkey Software Products			Specifications Chart	234.0045.123	2
GrafTalk	217.0035.023	1	KeyChart	217.0035.024	1	Tecmar		
Reflex (Analytica)	221.0035.001	2	SOFTPLOT/BGL (Mosaic Software)	217.0035.020	1	Bosun XT Multifunction Board		
ResQ (Key Software)	221.0035.010	2	The Software Connection			Specifications Chart	234.0045.209	2
Revelation (Cosmos)	221.0035.005	2	DECISION S/1000	221.0035.016	2	Captain Multifunction Board		
Rio Grande (STB Systems)			Software Publishing			Specifications Chart	234.0045.209	2
Specifications Chart	234.0045.207	2	pfs:File	221.0035.016	2	Device Master Board		
Rio Plus IIA (STB Systems)			PFS:Graph	217.0035.025	1	Specifications Chart	234.0045.123	2
Specifications Chart	234.0045.208	2	pfs:Report	221.0035.017	2	Dynamic Memory Board		
RTFILE (Contel Information Systems)	221.0035.005	2	Speech Master Board (Tecmar)			Specifications Chart	234.0045.013	2
RTM-10 (Qua Tech)			Specifications Chart	234.0045.124	2	Graphics Master Board		
Specifications Chart	234.0045.119	2	SPUZ (VIASYN)			Specifications Chart	234.0045.312	2
Runtime Revelation (Cosmos)	221.0035.006	2	Specifications Chart	234.0045.017	2	Maestro AT Multifunction		
S.S.R.			ST Series S-100 Static CMOS			Specifications Chart	234.0045.209	2
OMNIFILE	221.0035.017	2	Memory (Macrotech International)			Phonegate 2400		
SBC 86/87 (Teletek)			Specifications Chart	234.0045.011	2	Specifications Chart	234.0045.123	2
Specifications Chart	234.0045.014	2	STB Systems			PowerLink		
SBC-I (Teletek)			Atta Byte			Specifications Chart	234.0045.123	2
Specifications Chart	234.0045.014	2	Specifications Chart	234.0045.012	2	Scribe Master Board		
SBC-II (Teletek)			Big Byte			Specifications Chart	234.0045.123	2
Specifications Chart	234.0045.014	2	Specifications Chart	234.0045.013	2	Scribe Tender Board		
SB384 Time Spectrum (Emulex)			Chaufeur			Specifications Chart	234.0045.123	2
Specifications Chart	234.0045.203	2	Specifications Chart	234.0045.312	2	Speech Master Board		
Sci-Mate Personal Data Manager (Institute for Scientific Information)	221.0035.009	2	Colorific			Specifications Chart	234.0045.124	2
Scientific Solutions			Specifications Chart	234.0045.312	2	Time Master Board		
Base Board			Grande Byte			Specifications Chart	234.0045.209	2
Specifications Chart	234.0045.207	2	Specifications Chart	234.0045.013	2	Video Van Gogh Board		
DADIO Board			Graphix Plus II			Specifications Chart	234.0045.313	2
Specifications Chart	234.0045.121	2	Specifications Chart	234.0045.312	2	Voice Recognition Board		
IEEE-488 Interface Board			Memory Companion/PC			Specifications Chart	234.0045.124	2
Specifications Chart	234.0045.121	2	Specifications Chart	234.0045.013	2	Wave "XT" Memory Board		
Lab Master			Mono Plus II			Specifications Chart	234.0045.013	2
Specifications Chart	234.0045.121	2	Specifications Chart	234.0045.312	2	1stMATE Multifunction Board		
Lab Tender			Quarter Byte			Specifications Chart	234.0045.208	2
Specifications Chart	234.0045.121	2	Specifications Chart	234.0045.013	2	2ndMATE Multifunction Board		
Scribe Master Board (Tecmar)			Rio Grande			Specifications Chart	234.0045.208	2
Specifications Chart	234.0045.123	2	Specifications Chart	234.0045.207	2	3rdMATE Multifunction Board		
Scribe Tender Board (Tecmar)			Rio Plus IIA			Specifications Chart	234.0045.209	2
Specifications Chart	234.0045.123	2	Specifications Chart	234.0045.208	2	TelePaint (LCS/Telegraphics)	217.0035.016	1
SDI-SSC (Sigma Designs)			Super I/O II			Teletek		
Specifications Chart	234.0045.207	2	Specifications Chart	234.0045.208	2	SBC 86/87		
SDI-384 (Sigma Designs)			Super RES 400			Specifications Chart	234.0045.014	2
Specifications Chart	234.0045.207	2	Specifications Chart	234.0045.312	2	SBC-I		
SDLC Communications Adapter (IBM)			Stoneware			Specifications Chart	234.0045.014	2
Specifications Chart	234.0045.113	2	Advanced DB Master	221.0035.017	2	SBC-II		
Secure (Winterhalter)			DB Master	221.0035.017	2	Specifications Chart	234.0045.014	2
Specifications Chart	234.0045.126	2	Strategic Locations Planning			Systemmaster		
Selecter V (MICRO-AP)	221.0035.012	2	Atlas AMP	217.0035.025	1	Specifications Chart	234.0045.014	2
Sensible Software			Structured Systems Group (SSG)			Systemmaster II		
Graphics Department	217.0035.023	1	Analyst	221.0035.018	2	Specifications Chart	234.0045.014	2
Image Printer II	217.0035.024	1	Super I/O II (STB Systems)			Z-150MB		
Sequitur (Golemics)	221.0035.007	2	Specifications Chart	234.0045.208	2	Specifications Chart	234.0045.209	2
Serial Grappier (Orange Micro)			Super RES 400 (STB Systems)			The Data Base Manager (Quadram)	221.0035.015	2
Specifications Chart	234.0045.309	2	Specifications Chart	234.0045.312	2	The Prime Plotter (Primesoft)	217.0035.023	1
Serial Interface Adapter (Quadram)			Supermax (SMX) (IDE Associates)			The Searcher (Institute for Scientific Information)	221.0035.009	2
Specifications Chart	234.0045.311	2	Specifications Chart	234.0045.204	2	TI Time Spectrum (Emulex)		
Serial/Parallel Adapter (IBM)			Supersoft			Specifications Chart	234.0045.203	2
Specifications Chart	234.0045.113	2	Personal Data Base	221.0035.018	2	Time Master Board (Tecmar)		
Short RAM (Quadram)			SX-900 (Matrox Electronic Systems)			Specifications Chart	234.0045.209	2
Specifications Chart	234.0045.012	2	Specifications Chart	234.0045.308	2	Titan Multifunction (Titan Technologies)		
Short-Port Color Card (Emulex)			System Support 1 (VIASYN)			Specifications Chart	234.0045.210	2
Specifications Chart	234.0045.305	2	Specifications Chart	234.0045.210	2	Titan P-1 (Titan Technologies)		
Sigma Designs			Systemmaster (Teletek)			Specifications Chart	234.0045.210	2
Color 400			Specifications Chart	234.0045.014	2	Titan S-1 (Titan Technologies)		
Specifications Chart	234.0045.311	2	Systemmaster II (Teletek)			Specifications Chart	234.0045.210	2
Graph Dazzler			Specifications Chart	234.0045.014	2	Titan Technologies		
Specifications Chart	234.0045.311	2	Tall Tree Systems			Accelerator PC		
Graph Dazzler II			JRAM 2			Specifications Chart	234.0045.015	2
Specifications Chart	234.0045.311	2	Specifications Chart	234.0045.208	2	Accelerator 2e		
Maximizer			JRAM-AT			Specifications Chart	234.0045.014	2
Specifications Chart	234.0045.207	2	Specifications Chart	234.0045.208	2	Neptune 64K card		
			Tandy (Radio Shack)			Specifications Chart	234.0045.210	2
			Lumena	217.0035.025	1	Titan Multifunction		
			PROFILE III Plus	221.0035.018	2	Specifications Chart	234.0045.210	2

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TITAN 32K (TITAN TECHNOLOGIES)

ZGRAPH (MISOSYS)

Description	Report No.	Vol. No.	Description	Report No.	Vol. No.	Description	Report No.	Vol. No.
Titan P-1			Net 100			V1021/VS Telephone Voice Synthesizer Unit (Vynet)		
Specifications Chart	234.0045.210	2	Specifications Chart	234.0045.125	2	Specifications Chart	234.0045.125	2
Titan S-1			Net 101					
Specifications Chart	234.0045.210	2	Specifications Chart	234.0045.125	2			
Titan 32K			Net 11					
Specifications Chart	234.0045.015	2	Specifications Chart	234.0045.125	2			
Titan 64K			PC Video Board			Watson (Natural Microsystems)		
Specifications Chart	234.0045.015	2	Specifications Chart	234.0045.313	2	Specifications Chart	234.0045.116	2
Titan 32K (Titan Technologies)			PS-000 (PSIO Dual Function Interface)			Wave "XT" Memory Board (Tecmar)		
Specifications Chart	234.0045.015	2	Specifications Chart	234.0045.314	2	Specifications Chart	234.0045.013	2
Titan 64K (Titan Technologies)			RAM 22			WD 212 (Wolfdata)		
Specifications Chart	234.0045.015	2	Specifications Chart	234.0045.017	2	Specifications Chart	234.0045.126	2
Turbo Graphics Controller (Orchid Technology)			RAM 23			WD 212-LAPB (Wolfdata)		
Specifications Chart	234.0045.309	2	Specifications Chart	234.0045.017	2	Specifications Chart	234.0045.126	2
			SPUZ			WD 212/X.25 (Wolfdata)		
			Specifications Chart	234.0045.017	2	Specifications Chart	234.0045.126	2
			System Support 1			WHATSIIT? (Computer Headware)		
			Specifications Chart	234.0045.210	2	Specifications Chart	221.0035.004	2
UIO-10 (Qua Tech)			VICA-20 (Dual Systems)			Winterhalter		
Specifications Chart	234.0045.119	2	Specifications Chart	234.0045.108	2	Datataker		
ULP-001 (Ultraterm) (Videx)			Video Encoder (Vectrix)			Specifications Chart	234.0045.126	2
Specifications Chart	234.0045.314	2	Specifications Chart	234.0045.313	2	Secure		
Uni-Net 1 (Univation)			Video Van Gogh Board (Tecmar)			Specifications Chart	234.0045.126	2
Specifications Chart	234.0045.124	2	Specifications Chart	234.0045.313	2	WKBP-16 (Eventide)		
Uni-Net 2 (Univation)			Videogram (Softel)			Specifications Chart	234.0045.007	2
Specifications Chart	234.0045.124	2	Videx			WKBP-4 (Eventide)		
Univation			PS-000 (PSIO Dual Function Interface)			Specifications Chart	234.0045.007	2
CT 640			Specifications Chart	234.0045.314	2	WMAZ-4 Series (Eventide)		
Specifications Chart	234.0045.015	2	ULP-001 (Ultraterm)			Specifications Chart	234.0045.008	2
CT-640-87			Specifications Chart	234.0045.314	2	WNIM (Gateway Communications)		
Specifications Chart	234.0045.015	2	UNP-000 (Uniprint Parallel Printer Card)			Specifications Chart	234.0045.111	2
DMB 192-192			Specifications Chart	234.0045.314	2	Wolfdata		
Specifications Chart	234.0045.015	2	VT-602 (Videoterm)			WD 212		
DMB 768-768			Specifications Chart	234.0045.314	2	Specifications Chart	234.0045.126	2
Specifications Chart	234.0045.016	2	Visual Communications Network			WD 212/X.25		
DMB-384			VCN ExecuVision			Specifications Chart	234.0045.126	2
Specifications Chart	234.0045.016	2	VME-488 (Electronic Modular Systems)			WSB-10 (Qua Tech)		
Uni-Net 1			Specifications Chart	217.0035.026	1	Specifications Chart	234.0045.119	2
Specifications Chart	234.0045.124	2	VME-186 (Colex)					
Uni-Net 2			Specifications Chart	234.0045.109	2	XT/370 Option Kit (IBM)		
Specifications Chart	234.0045.124	2	VME/186 (Colex)			Specifications Chart	234.0045.113	2
UNP-000 (Uniprint Parallel Printer Card) (Videx)			Specifications Chart	234.0045.003	2	XTender (PC Technologies)		
Specifications Chart	234.0045.314	2	VMEM-2M (Dual Systems)			Specifications Chart	234.0045.011	2
			Specifications Chart	234.0045.006	2			
			VMPU-32 (Dual Systems)					
			Specifications Chart	234.0045.006	2			
V-Graph (CompuView Products)			Voice Recognition Board (Tecmar)			Z-150MB (Teletek)		
VCN ExecuVision (Visual Communications Network)			Specifications Chart	234.0045.124	2	Specifications Chart	234.0045.209	2
Vector Graphic			Votan			Z-305 128K Memory Expansion Board (Zenith Data Systems)		
DataManagr			VPC 2000 Voice Card			Specifications Chart	234.0045.018	2
Vectrix			Specifications Chart	234.0045.125	2	Zenith Data Systems		
Video Encoder			VPC 2000 Voice Card (Votan)			Z-305 128K Memory Expansion Board		
Specifications Chart	234.0045.313	2	Specifications Chart	234.0045.125	2	Specifications Chart	234.0045.018	2
VX/PC Graphics Card			VRT 300 (Interstate Voice Products)			ZGRAPH (Misosys)		
Specifications Chart	234.0045.313	2	Specifications Chart	234.0045.115	2	217.0035.020	1	
VX128A Graphics Processor			VT-602 (Videoterm) (Videx)					
Specifications Chart	234.0045.313	2	Specifications Chart	234.0045.314	2			
VX384A Graphics Processor			VX/PC Graphics Card (Vectrix)					
Specifications Chart	234.0045.313	2	Specifications Chart	234.0045.313	2			
Ven-Tel			VX128A Graphics Processor (Vectrix)					
PC Modem Half Card			Specifications Chart	234.0045.313	2			
Specifications Chart	234.0045.124	2	VX384A Graphics Processor (Vectrix)					
PC Modem 1200			Specifications Chart	234.0045.313	2			
Specifications Chart	234.0045.124	2	Vynet					
VersaForm (Applied Software Technology)			V101A/VS Telephone Voice Synthesizer Unit					
Specifications Chart	221.0035.002	2	Specifications Chart	234.0045.125	2			
Vertex Systems			V1011 Speech Digitizer & Playback Unit					
Apple Turnover			Specifications Chart	234.0045.125	2			
Specifications Chart	234.0045.125	2	V1011/VS Telephone Voice Synthesizer Unit					
VG-123 (DataCube)			Specifications Chart	234.0045.125	2			
Specifications Chart	234.0045.304	2	V1021 Speech Digitizer & Playback Unit					
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HOW TO USE THIS INDEX

This **MicroWorld Master Index** is a quick reference to help you locate any report within your service. All reports have been cross-referenced and are listed by:

- **Vendor name**
- **Product name**
- **Type of equipment.**

Sequence of Indexed Entries

All entries in this index are arranged alphanumerically, that is:

- Letters A through Z are listed first.
- Numerals 0 through 9 follow.

Abbreviations

All abbreviated entries are listed as they would appear in a purely alphabetized sequence. For example, NCR is listed as if written "Ncr" and is placed **after** "National" and **before** "Network." It is identified parenthetically with its full name: **National Cash Register.**

Report Numbers

Each report is identified by a unique 10-digit number. All reports should be filed sequentially by report number. The significance of the report numbers is described below.

In Report No. **227.0050.003**, for example, the 10-digit number supplies three items of information:

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Volume Number

To the right of the report number is a number that indicates the volume in which the report is found. The categories of equipment and the corresponding volume follow:

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1	Applications Software
2	Systems Software, Microcomputers, Peripherals

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Apple Daisy Wheel			Apricorn			Aspect		
Specifications Chart	235.0045.002	2	1300-10 16K RAM Expansion			GL/M	217.0035.002	1
Apple Disk III Diskette Device			Specifications Chart	234.0045.001	2	Assembly Language Development System (Tandy (Radio Shack))	224.0035.010	2
Specifications Chart	233.0045.001	2	1300-35 Graphics Printer Interface			Asset/Liability Management (Finser)	214.0035.006	1
Apple Disk Operating System (DOS)	220.0035.001	2	Specifications Chart	234.0045.301	2	Asset/Liability-Forecasting Guide (BMA Business Computers)	214.0035.001	1
Apple IIc			1300-45 Super Serial Imager			AST Research		
Hardware Product Brief	229.0050.004	2	Specifications Chart	234.0045.301	2	Advantage!		
Specifications Chart	229.0045.001	2	1300-70 UPPER/lower Case Adapter			Specifications Chart	234.0045.201	2
Apple IIe			Specifications Chart	234.0045.301	2	AST 5251-11		
Compatibility Matrix	228.0025.001	2	1400-10-80 Column Card			Specifications Chart	234.0045.101	2
Hardware Product Brief	228.0050.002	2	Specifications Chart	234.0045.301	2	AST-BSC		
Specifications Chart	228.0045.001	2	1400-15 Extend-It			Specifications Chart	234.0045.102	2
Apple IIe Microcomputer	230.0080.501	2	Specifications Chart	234.0045.001	2	Specifications Chart	234.0045.102	2
Apple Logo	225.0035.002	2	Apricot FI, Apricot File (ACT Ltd)	229.0025.001	2	AST-BSC Cluster		
Apple Writer II	218.0035.001	1	Compatibility Matrix	229.0050.001	2	Specifications Chart	234.0045.102	2
Apple IIc			Hardware Product Brief			AST-FourPort/XN		
Compatibility Matrix	229.0025.001	2	Apricot PC (ACT Ltd)			Specifications Chart	234.0045.102	2
AppleFile III	221.0035.001	2	Compatibility Matrix	228.0025.001	2	Specifications Chart	234.0045.102	2
Color Monitor IIe/Color Monitor IIc			Compatibility Matrix	229.0025.001	2	AST-PCnet		
Specifications Chart	236.0045.002	2	Hardware Product Brief	228.0050.001	2	Specifications Chart	234.0045.102	2
DuoDisk Diskette Device			Hardware Product Brief	229.0050.001	2	AST-PCnet II		
Specifications Chart	233.0045.002	2	Apricot Point 32 (ACT Ltd)			Specifications Chart	234.0045.102	2
Imagewriter			Specifications Chart	227.0045.001	2	AST-PCOX		
Specifications Chart	235.0045.002	2	Apricot Point 7 (ACT Ltd)			Specifications Chart	234.0045.103	2
Imagewriter II			Specifications Chart	227.0045.001	2	AST-SNA		
Specifications Chart	235.0045.003	2	Apricot Portable (ACT Ltd)			Specifications Chart	234.0045.103	2
LaserWriter			Compatibility Matrix	229.0025.001	2	AST-SNA/BSC Gateway		
Specifications Chart	235.0045.003	2	Hardware Product Brief	229.0050.002	2	Specifications Chart	234.0045.103	2
Macintosh			Apricot xl, xi-20S (ACT Ltd)			AST-SNA/Cluster		
Compatibility Matrix	229.0025.001	2	Compatibility Matrix	229.0025.001	2	Specifications Chart	234.0045.103	2
Hardware Product Brief	229.0050.004	2	Hardware Product Brief	229.0050.002	2	AST-3270/Coax		
Specifications Chart	228.0045.002	2	APS (Alcyon)			Specifications Chart	234.0045.101	2
Macintosh Hard Disk 20			Specifications Chart	227.0045.001	2	AST-3770		
Specifications Chart	232.0045.004	2	APS.RMS (Alcyon)			Specifications Chart	234.0045.101	2
Macintosh XL			Specifications Chart	227.0045.002	2	AST-3780		
Compatibility Matrix	228.0025.001	2	APX (Alcyon)			Specifications Chart	234.0045.101	2
Hardware Product Brief	228.0050.002	2	Specifications Chart	227.0045.002	2	AST-5250 Display		
Monitor II			Architectural Drawings			Specifications Chart	234.0045.301	2
Specifications Chart	236.0045.002	2	(see reports beginning with 217)			AST-5251/12		
Monitor IIc			ARCnet Baseband LAN (Datapoint)			Specifications Chart	234.0045.101	2
Specifications Chart	236.0045.002	2	Specifications Chart	238.0045.005	2	CC-232 Advanced Communications Card		
Senior Analyst	207.0035.002	1	Area			Specifications Chart	234.0045.103	2
Sophisticated Operating System (SOS)	220.0035.001	2	EWIT (Energy What If Tool)	216.0035.003	1	ColorGraphPlus		
UniDisk Diskette Device			Argos Software			Specifications Chart	234.0045.302	2
Specifications Chart	233.0045.002	2	ABECAS	205.0035.001	1	Colossus		
Workbench	224.0035.001	2	ABECAS/Q	204.0035.001	1	Specifications Chart	232.0045.004	2
Apple Daisy Wheel (Apple Computer)			Ariel			ComboPlus		
Specifications Chart	235.0045.002	2	RTA-331	216.0035.004	1	Specifications Chart	234.0045.201	2

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Expansion Memory MPIO			3B2/400			8836		
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GraphPak			Hardware Product Brief	227.0050.502	2	Aztec C Compiler (MANX Software Systems)	225.0035.008	2
Specifications Chart	234.0045.201	2	Atari					
I/O Mini			835 Long-Haul Modem			B 25 (Burroughs)		
Specifications Chart	234.0045.201	2	Specifications Chart	237.0045.001	2	Compatibility Matrix	228.0025.001	2
I/O Plus II			Atlas AMP (Strategic Locations Planning)	217.0035.025	1	Hardware Product Brief	228.0050.003	2
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MegaPlus II			Specifications Chart	232.0045.003	2	B-1000 (Dataproducts)		
Specifications Chart	234.0045.201	2	Aton International			Specifications Chart	235.0045.013	2
MicroStor-10D			Micro/Remote 3270 Emulator	222.0035.001	2	B-300 (Dataproducts)		
Specifications Chart	232.0045.005	2	OmniWriter	218.0035.003	1	Specifications Chart	235.0045.014	2
MicroStor-20D			ATP (Cordata)			B-600 (Dataproducts)		
Specifications Chart	232.0045.005	2	Specifications Chart	229.0045.002	2	Specifications Chart	235.0045.014	2
MonoGraphPlus			Atta Byte (STB Systems)			Baby-Angel 80 (E&U Engel Consulting)		
Specifications Chart	234.0045.302	2	Specifications Chart	234.0045.012	2	Specifications Chart	227.0045.029	2
MP Mini			Attorney's Reminder Calendar (Bear Computers)	215.0035.005	1	Baby-Angel 86 (E&U Engel Consulting)		
Specifications Chart	234.0045.001	2	Attorney's Time and Billing (Bear Computers)	215.0035.005	1	Specifications Chart	227.0045.030	2
Multi I/O			AT1332A (Mitsubishi Electronics America)			BABY/34 (California Software Products)	223.0035.002	2
Specifications Chart	234.0045.103	2	Specifications Chart	236.0045.007	2	BackRest (Stok Software)	223.0035.011	2
Preview!			AUDIT (EF Haskell & Associates)	215.0035.014	1	BACS Accounts Payable System (American Business Systems)	200.0035.001	1
Specifications Chart	234.0045.302	2	AUERBACH On...			BACS Accounts Receivable System (American Business Systems)	201.0035.001	1
RAMpage!			Leading Microcomputer Applications			BACS General Ledger System (American Business Systems)	202.0035.001	1
Specifications Chart	234.0045.001	2	Microcomputer Spreadsheet Packages			BACS Payroll Systems (American Business Systems)	203.0035.001	1
RamStak			Needs Assessment for Microcomputer LANs			BACWAT-Backwater in Prismatic Channels (M Hudis & Associates)	216.0035.031	1
Specifications Chart	234.0045.002	2	Word Processing			Balance Forward Accounts Receivable (International Micro Systems (IMS))	201.0035.006	1
RAMvantage!			Aura (Softrend)	208.0035.008	1	Balance Sheet Information System (BASIS) (Darling & Associates)	214.0035.003	1
Specifications Chart	234.0045.002	2	AutoCAD (AutoDESK)	217.0035.002	1	Bancado (Cado Systems)	214.0035.001	1
Reach!			Autocode 1 (Axel Johnson)	224.0035.001	2	Bank Management		
Specifications Chart	234.0045.103	2	AutoDESK			(see reports beginning with 214)		
SixPakPlus			AutoCAD	217.0035.002	1	Bank Street Speller (Broderbund Software)	218.0035.004	1
Specifications Chart	234.0045.202	2	Autographix			Bank Street Writer (Broderbund Software)	218.0035.004	1
AST-SNA (AST Research)			AGX50 Guidelines	217.0035.002	1	BankDisk Asset and Liability Management (Financial Systems)	214.0035.005	1
Specifications Chart	234.0045.103	2	Autographix 35 Presentation Graphics Software	217.0035.003	1	Bar Charts		
AST-SNA/BSC Gateway (AST Research)			Automated Costing and Estimating (ACE) (Computer Options)	204.0035.001	1	(see reports beginning with 217)		
Specifications Chart	234.0045.103	2	Automated Language Processing Systems			Barr Systems		
AST-SNA/Cluster (AST Research)			Automated Language Processing Systems (ALPS)	215.0035.004	1	BARR/HASP		
Specifications Chart	234.0045.103	2	Automated Language Processing Systems (ALPS) (Automated Language Processing Systems)	215.0035.004	1	Specifications Chart	234.0045.104	2
Astraea Computer			AUTOSORT (Computer Control Systems)	223.0035.002	2	Base Board (Scientific Solutions)		
AC-S9100			AUTOSORT/86 (Computer Control Systems)	223.0035.003	2	Specifications Chart	234.0045.207	2
Specifications Chart	227.0045.005	2	AutoWriter (BOS National)	218.0035.004	1	BASIC (Softech Microsystems)	225.0035.013	2
AC-S9101			Avatar Technologies			BASIC Compiler (Supersoft)	225.0035.015	2
Specifications Chart	227.0045.006	2	PA100			BASIC Enhanced Software Tools (B.E.S.T.) (Sensible Software)	224.0035.008	2
Astro-Star Enterprises			Specifications Chart	234.0045.104	2	Basic Time BT6Plus (Qubie)		
Letter Writer			Specifications Chart	234.0045.104	2	Specifications Chart	234.0045.207	2
Astrocom			Aviation Analysis			Basis		
1300 Long-Haul Modem			Aircraft Department Management System (ADMS)	215.0035.004	1	MEDIC80	215.0035.005	1
Specifications Chart	237.0045.001	2	Award Software			baZic II (Lifeboat Associates)	225.0035.007	2
Asynchronous Communications (ASCOM) (Dynamic Microprocessor Associates)			CROSSAVE	223.0035.001	2	BEAM DEFLECTION (Dynacomp)	216.0035.011	1
Specifications Chart	222.0035.003	2	CROSSDATA	223.0035.001	2	BEAM-1 (Disco-Tech)	216.0035.008	1
Asynchronous Communications Adapter (IBM)			Axel Johnson			Beaman Porter		
Specifications Chart	234.0045.111	2	Autocode 1	224.0035.001	2	PowerPen	218.0045.002	1
Asynchronous Communications Support Program (IBM)			Cross/ File	223.0035.001	2	PowerText	218.0035.003	1
AT Power (Profit Systems)			Axiom				218.0045.002	1
Specifications Chart	234.0045.206	2	DX 1500			Bear Computers		
AT&T Information Systems			Specifications Chart	235.0045.004	2	Attorney's Reminder Calendar	215.0035.005	1
AT&T Personal Computer 6300			DX 2000			Attorney's Time and Billing	215.0035.005	1
Compatibility Matrix	228.0025.001	2	Specifications Chart	235.0045.004	2	Beehive		
Hardware Product Brief	228.0050.003	2	DX 2500			TOPPER		
Datakit Virtual Circuit Switch (VCS)			Specifications Chart	235.0045.004	2	Specifications Chart	228.0045.002	2
Baseband LAN			DX 3500			TOPPER II		
Specifications Chart	238.0045.002	2	Specifications Chart	235.0045.005	2	Specifications Chart	228.0045.003	2
Model 455			EX-1620			BENCHMARK Mail List (Metasoft)	218.0035.017	1
Specifications Chart	235.0045.003	2	Specifications Chart	235.0045.005	2	Benchmark Word Processor (Metasoft)	218.0045.009	1
Model 457			EX-420			BENCHMARK 3.0 (Metasoft)	218.0035.017	1
Specifications Chart	235.0045.003	2	Specifications Chart	235.0045.005	2	Berzurk Systems		
Model 458			Aydin Controls			Spell-It	218.0035.003	1
Specifications Chart	235.0045.003	2	8810			BETH (Energy)	216.0035.021	1
Model 470/471			Specifications Chart	236.0045.002	2	BGL Technology		
Specifications Chart	235.0045.003	2	8815			FSS-102A Diskette Device		
Model 473/474			Specifications Chart	236.0045.003	2	Specifications Chart	233.0045.002	2
Specifications Chart	235.0045.004	2	8830			FSS-102B Diskette Device		
Model 475/476			Specifications Chart	236.0045.003	2	Specifications Chart	233.0045.002	2
Specifications Chart	235.0045.004	2	8831			FSS-102D Diskette Device		
Model 478/479			Specifications Chart	236.0045.003	2	Specifications Chart	233.0045.002	2
Specifications Chart	235.0045.004	2	8835			FSS-103A Diskette Device		
PC 6300			Specifications Chart	236.0045.003	2	Specifications Chart	233.0045.002	2
Specifications Chart	228.0045.002	2						
Unix	220.0035.001	2						
Unix PC Model 7300								
Compatibility Matrix	227.0025.501	2						
Hardware Product Brief	227.0050.503	2						
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BI-SYNC/3270 (FRONTIER TECHNOLOGIES)

CADO SYSTEMS

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FSS-103A.5 Diskette Device			BOS/Payables	200.0035.001	1	Burroughs		
Specifications Chart	233.0045.002	2	BOS/Receivables and invoicing	201.0035.001	1	B 25		
FSS-103B Diskette Device			BOS/INVENTORY (BOS National)	206.0035.002	1	Compatibility Matrix	228.0025.001	2
Specifications Chart	233.0045.002	2	BOS/LEDGER (BOS National)	202.0035.002	1	Hardware Product Brief	228.0050.003	2
Bi-sync/3270 (Frontier Technologies)	222.0035.003	2	BOS/Mini-Pronto (Business Operating Systems)			Specifications Chart	228.0045.003	2
Bibliography (Digital Marketing)	218.0035.007	1	Specifications Chart	227.0045.007	2	Easy Accounts Payable	200.0035.001	1
Big Byte (STB Systems)			BOS/Pronto (Business Operating Systems)			Easy Accounts Receivable	201.0035.002	1
Specifications Chart	234.0045.013	2	Specifications Chart	227.0045.007	2	Easy General Ledger	202.0035.002	1
Bill of Materials (Compumax)	219.0035.001	1	BOSS (Business Oriented Software System) (American Planning)	221.0035.001	2	Easy Inventory	206.0035.003	1
Binary Synchronous Communications Adapter (IBM)			Bosun XT Multifunction Board (Tecmar)			Easy Payroll	203.0035.002	1
Specifications Chart	234.0045.111	2	Specifications Chart	234.0045.209	2	Business & Professional Software		
Binkley Software			BP-1500 (Dataproducts)			Art Department	217.0035.003	1
ROUTE-Runoff Detention Basin	216.0035.004	1	Specifications Chart	235.0045.014	2	BPS Business Graphics	217.0035.004	1
BIN85 (Applied Microcomputer Systems)	223.0035.001	2	BP-2000 (Dataproducts)			PIK	217.0035.004	1
BIS Accounts Receivable System (Bristol Information Systems)	201.0035.001	1	Specifications Chart	235.0045.014	2	Business Accounting Fixed Assets (Peachtree Software)	202.0035.011	1
BIS-HASP (IE Systems)	222.0035.008	2	BPI Systems			Business Accounting General Ledger (Peachtree Software)	202.0035.011	1
BIS-3270 (IE Systems)	222.0035.007	2	General Accounting	205.0035.002	1	Business Accounting Inventory Control (Peachtree Software)	206.0035.012	1
BIS-3780 (IE Systems)	222.0035.008	2	BPS Business Graphics (Business & Professional Software)	217.0035.004	1	Business Accounting Payroll (Peachtree Software)	203.0035.011	1
BIS/3270 (Vector Graphic)	222.0035.017	2	Bridge Communications			Business Accounting Sales Invoicing (Peachtree Software)	206.0035.012	1
BIS/3780 (Vector Graphic)	222.0035.017	2	Communications Servers/1 & 100 Baseband LAN			Business Graphics		
Bit 3 Computer			Specifications Chart	238.0045.002	2	(see reports beginning with 217)		
401 IBM PC to Multibus Adaptor	234.0045.104	2	Gateway Servers/1 & 3 Baseband LAN			Business Graphics System (Peachtree Software)	217.0035.021	1
Specifications Chart	234.0045.104	2	Specifications Chart	238.0045.003	2	Business Management Series (Cyberia)	207.0035.006	1
402 PC AT to Multibus Adaptor	234.0045.104	2	Bright Up Industries			Business Management Series (IBM)	205.0035.005	1
Specifications Chart	234.0045.002	2	CC1411/CC1421			Business Management Systems		
520 Memory Plus 32K RAM Card	234.0045.302	2	Specifications Chart	236.0045.003	2	Medical Care Office System (MEDCOS)	215.0035.006	1
Specifications Chart	234.0045.104	2	CC1421-LP			Business Operating Systems		
610 Full-view 80			Specifications Chart	236.0045.004	2	BOS/Mini-Pronto		
Specifications Chart	234.0045.104	2	CC1424			Specifications Chart	227.0045.007	2
701 Dual-Comm Plus			Specifications Chart	236.0045.004	2	BOS/Pronto		
Specifications Chart	234.0045.104	2	Brightbill-Roberts and Company Ltd. GraFIX PARTNER	217.0035.003	1	Specifications Chart	227.0045.007	2
Bizcomp			Brigitte (Phase Information Machines)			DVR Series II	227.0045.008	2
IntelliModem	234.0045.105	2	Specifications Chart	234.0045.117	2	Business Planning		
Specifications Chart	237.0045.001	2	Bristol Information Systems			(see reports beginning with 205 and 207)		
1022 Long-Haul Modem	237.0045.002	2	BIS Accounts Receivable System	201.0035.001	1	Business Planning Systems		
Specifications Chart	237.0045.002	2	INVENTORY MANAGEMENT SYSTEM	203.0035.001	1	PLAN 80	207.0035.003	1
1080 VersaModem Long-Haul Modem			PAYROLL	215.0035.005	1	Business Planning Tool (BPT) (Sofstar)	207.0035.015	1
Specifications Chart	237.0045.002	2	Professional Time Accounting	215.0035.006	1	Business Software Package (M & D Systems)	205.0035.008	1
BJ-80 (Canon USA)			Property Management System			Business Software Pty Ltd		
Specifications Chart	235.0045.005	2	Broad Com Broadband LAN (General Instrument)	238.0045.203	2	PLANFIN	207.0035.003	1
Black's Law Dictionary (Sensible Software)	218.0035.026	1	Specifications Chart	218.0035.004	1	PROFIN	207.0035.004	1
Blossom (Orchid Technology)			Broderbund Software			Business Solutions		
Specifications Chart	234.0045.205	2	Bank Street Speller	218.0035.004	1	Jack2	208.0035.001	1
BlueLynx 2780/3780 RJE (Techland Systems)	234.0045.122	2	Bank Street Writer	218.0035.004	1	The Incredible JACK	208.0035.002	1
Specifications Chart	234.0045.122	2	Brokerage Applications			BuySel (Single Source Solution)	214.0035.013	1
BlueLynx 3270 Gateway (Techland Systems)	234.0045.122	2	(see Professional Services reports beginning with 215)			Bytel		
Specifications Chart	234.0045.122	2	Bronson Electronics			COGEN	224.0035.001	2
BlueLynx 3270 Local (Techland Systems)	234.0045.122	2	Innovation 1007 CGP	234.0045.302	2	Menu Master	224.0035.002	2
Specifications Chart	234.0045.122	2	Specifications Chart	234.0045.002	2	B128-80 (Commodore Business Machines)		
BlueLynx 3270/BSC (Techland Systems)	234.0045.122	2	Bruce & James			Compatibility Matrix	228.0025.001	2
Specifications Chart	234.0045.122	2	Wordvision	218.0045.002	1	Hardware Product Brief	228.0050.006	2
BlueLynx 5251 Model 11 (Techland Systems)	234.0045.122	2	BT-P4500D (Panasonic Industrial)			C Compiler (Digital Research)	225.0035.003	2
Specifications Chart	234.0045.122	2	Specifications Chart	236.0045.010	2	C Compiler (ISE)	225.0035.007	2
BlueLynx 5251 Model 12 (Techland Systems)	234.0045.123	2	Btrieve Record Manager (International Software Alliance)	221.0035.009	2	C Compiler (Supersoft)	225.0035.015	2
Specifications Chart	224.0035.007	2	Budget & Financial Reporting (State of the Art)	202.0035.013	1	C.A.T. II (Cado Systems)		
BLX/C (Quelo)			Budgeting/Forecasting			Compatibility Matrix	227.0025.001	2
BMA Business Computers			(see reports beginning with 207)			Hardware Product Brief	227.0050.007	2
Asset/Liability-Forecasting Guide	214.0035.001	1	Buffered Grappler+ (Orange Micro)			C.A.T. III (Cado Systems)		
BMS (Builders Management System) (Enterprise Computer System)	215.0035.013	1	Specifications Chart	234.0045.308	2	Compatibility Matrix	227.0025.001	2
BoB Display Adaptor (Emulex)			Buffered Serial Printer Adaptor (Quadram)			Hardware Product Brief	227.0050.007	2
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Bob-compatible Color Monitor (Emulex)			Bufferpak (Orange Micro)			SURVEY SYSTEM 1.1	216.0035.004	1
Specifications Chart	236.0045.006	2	Specifications Chart	234.0045.308	2	C-Series (Torch Computers Ltd)		
Bolted Framed Beam Connection (Ecom Associates)	216.0035.013	1	Building Energy Analysis (Elite Software Development)	216.0035.019	1	Compatibility Matrix	228.0025.004	2
BOMP (Midwest Computer Center)	218.0035.026	1	Bull Peripherals			Hardware Product Brief	228.0050.508	2
Bookends (Sensible Software)	202.0035.003	1	D530			C-10-SP (Cromemco)		
Bookkeeping System (Compucount)			Specifications Chart	232.0045.005	2	Specifications Chart	228.0045.007	2
BOOKSI The Electronic Ledger (Systems Plus)	202.0035.014	1	D550			CA-EXECUTIVE (Computer Associates)	208.0035.002	1
Borland International			Specifications Chart	232.0045.005	2	CAD Master 2000 (Datagraphic Systems)	217.0035.006	1
MenuMaster	224.0035.001	2	D570			Cadet Series (IBC/Integrated Business Computers)		
Turbo Pascal	225.0035.002	2	Specifications Chart	232.0045.005	2	Compatibility Matrix	227.0025.002	2
BOS National			D585			Hardware Product Brief	227.0050.022	2
AutoWriter	218.0035.004	1	Specifications Chart	232.0045.005	2	CADgraph 2 (Frontier Technologies)		
BOS/INVENTORY	206.0035.002	1	Bunker Ramo Information Systems			Specifications Chart	234.0045.306	2
BOS/LEDGER	202.0035.002	1	Aladdin			CADKEY (Micro Control Systems)	217.0035.018	1
			Specifications Chart	227.0045.007	2	Cado Systems		
						Advertising Agency Control System	215.0035.006	1

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CAERE

CHRISLIN INDUSTRIES

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Bancado	214.0035.001	1	Cash Flow Analysis (see reports beginning with 205 and 207)			MicroPlus 700 Series Compatibility Matrix	228.0025.001	2
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Compatibility Matrix	227.0025.001	2	Cash Management System (Appel & Kreiss Software)	215.0035.003	1	Centurion PC (Centurion Computer)		
Hardware Product Brief	227.0050.007	2	Casio			Hardware Product Brief	228.0050.501	2
C.A.T. III			FP-1000			Cermetek		
Compatibility Matrix	227.0025.001	2	Specifications Chart	228.0045.004	2	DATAMATE 103 Long-Haul Modem		
Hardware Product Brief	227.0050.007	2	Cath Lab Support System (Trinity Computing Systems)	215.0035.029	1	Specifications Chart	237.0045.002	2
Credit Union System of America (CUSA)	214.0035.001	1	Caxton Software Publishing			CGP 220 (Tandy (Radio Shack))		
Fast Food Management System	215.0035.006	1	Cardbox	221.0035.003	2	Specifications Chart	235.0045.313	2
Tiger ATS			CBASIC (Digital Research)	225.0035.003	2	Chameleon, Chameleon Plus (Seequa Computer)		
Compatibility Matrix	227.0025.001	2	CBASIC/16 (Digital Research)	225.0035.003	2	Compatibility Matrix	229.0025.002	2
Hardware Product Brief	227.0050.008	2	CBASIC/86 (Digital Research)	225.0035.004	2	Hardware Product Brief	229.0050.019	2
Tiger ATS 16			CBM 8032 (Commodore Business Machines)			Champion Business Accounting Software (Champion Software)	205.0035.003	1
Specifications Chart	227.0045.008	2	Compatibility Matrix	228.0025.001	2	Champion Software		
Tiger ATS 32			Hardware Product Brief	228.0050.006	2	Champion Business Accounting Software	205.0035.003	1
Specifications Chart	227.0045.008	2	CBM-8032 (Commodore Business Machines)			The Champion Accounts Payable	200.0035.002	1
Tiger ATS 64			Specifications Chart	228.0045.004	2	The Champion Accounts Receivable	201.0035.002	1
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Tiger ATS 8			Specifications Chart	234.0045.105	2	The Champion Inventory	206.0035.003	1
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Calcu-Plot (Human Systems Dynamics)	217.0035.013	1	Specifications Chart	236.0045.013	2	Universe 2203T		
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Callan Data Systems			Hardware Product Brief	228.0050.009	2	Specifications Chart	227.0045.010	2
Unistar 100			CCU Support System (Trinity Computing Systems)	215.0035.029	1	Universe 68/05		
Compatibility Matrix	227.0025.001	2	CC1411/CC1421 (Bright Up Industries)			Specifications Chart	227.0045.010	2
Hardware Product Brief	227.0050.008	2	Specifications Chart	236.0045.003	2	Universe 68/05 Microcomputer Selection Guide	230.0060.001	2
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UNISTAR 300			Specifications Chart	236.0045.004	2	Universe 68/137T		
Compatibility Matrix	227.0025.501	2	CC3 (Models 405, 410, 415) (Computone Systems)			Specifications Chart	227.0045.011	2
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A-50/55			Specifications Chart	235.0045.007	2	Specifications Chart	234.0045.312	2
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Specifications Chart	235.0045.005	2	Specifications Chart	235.0045.008	2	Chiropractic (CYMA)	215.0035.010	1
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MD 351 Diskette Device			Specifications Chart	235.0045.006	2	Specifications Chart	234.0045.002	2
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PJ-1080A			Centurion PC			Specifications Chart	233.0045.003	2
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CHROUS DATA SYSTEMS

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CI-1173 (Chrislin Industries) Specifications Chart	234.0045.002	2	CMV Software Specialists CMV General Business System	215.0035.008	1	Color 600 (Amdek) Specifications Chart	236.0045.001	2
CI-1173-EDC (Chrislin Industries) Specifications Chart	234.0045.002	2	PROTAB	215.0035.008	1	Color 700 (Amdek) Specifications Chart	236.0045.001	2
CI-1220-TF Diskette Device (Chrislin Industries) Specifications Chart	233.0045.003	2	CM3026 SCSI (Computer Memories) Specifications Chart	232.0045.006	2	Color 710 (Amdek) Specifications Chart	236.0045.001	2
CI-300 (CIE Terminals) Specifications Chart	235.0045.008	2	CM31311 ST (Thomson) Specifications Chart	236.0045.018	2	Color 722 (Amdek) Specifications Chart	236.0045.002	2
CI-3500 Model 10 (CIE Terminals) Specifications Chart	235.0045.008	2	CM31481 VI (Thomson) Specifications Chart	236.0045.019	2	Color 722 (Amdek) Specifications Chart	236.0045.002	2
CI-3500 Model 20 (CIE Terminals) Specifications Chart	235.0045.008	2	CM3426 (Computer Memories) Specifications Chart	232.0045.006	2	Color/ Graphics Monitor Adapter (IBM) Specifications Chart	234.0045.306	2
CI-3500 Model 30 (CIE Terminals) Specifications Chart	235.0045.008	2	CM36311 ID (Thomson) Specifications Chart	236.0045.019	2	ColorCorp ColorBIZ Loan	214.0035.002	1
CI-3500 Model 40 (CIE Terminals) Specifications Chart	235.0045.009	2	CM36432 SI (Thomson) Specifications Chart	236.0045.019	2	ColorGraphPlus (AST Research) Specifications Chart	234.0045.302	2
CI-550 Diskette Device (Chrislin Industries) Specifications Chart	233.0045.003	2	CM36512 VI (Thomson) Specifications Chart	236.0045.019	2	Colorific (STB Systems) Specifications Chart	234.0045.312	2
CI-600 (CIE Terminals) Specifications Chart	235.0045.009	2	CM36632 V (Thomson) Specifications Chart	236.0045.019	2	Colossus (AST Research) Specifications Chart	232.0045.004	2
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CI-8086+ (Chrislin Industries) Specifications Chart	234.0045.003	2	CM6640 (Computer Memories) Specifications Chart	232.0045.006	2	Compatibility Matrix	229.0050.005	2
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Cleveland Codonics I-200 Specifications Chart	234.0045.302	2	Hardware Product Brief	228.0050.038	2	Combination Adapter (# 6000) (IBM) Specifications Chart	234.0045.203	2
I-300 Specifications Chart	234.0045.303	2	Specifications Chart	228.0045.035	2	ComboPlus (AST Research) Specifications Chart	234.0045.201	2
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			COGEN (Software Systems) Specifications Chart	216.0035.039	1			
			CoGo-Survey 80 (Disco-Tech) Specifications Chart	216.0035.009	1			
			Coherent Communications FSM-85A Long-Haul Modem Specifications Chart	237.0045.002	2			
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COMM-STOR III (SYKES DATATRONICS)

COMPUTER OPTIONS

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Specifications Chart	228.0045.037	2	COMPU-SHEET (Interactive Systems)	207.0035.010	1	Specifications Chart	227.0045.077	2
Commander Computer 964 Plus (Columbia Data Products)			Compucorp			CompuPro 816/G (VIASYN)		
Compatibility Matrix	227.0025.001	2	OA 3200			Specifications Chart	227.0045.078	2
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Commercial Cooling & Heating Loads (Elite Software Development)	216.0035.019	1	745			Compatibility Matrix	227.0025.001	2
Commodity Futures Historical Price Charts (Ensign Software)	214.0035.004	1	Specifications Chart	228.0045.005	2	Hardware Product Brief	227.0050.014	2
Commodity Futures Real-Time Tic Charts (Ensign Software)	214.0035.005	1	775			CompuPro 816/Z (CompuPro)		
Commodore Business Machines 8128-80			Specifications Chart	228.0045.006	2	Hardware Product Brief	228.0050.503	2
Compatibility Matrix	228.0025.001	2	785			CompuPro 816/Z (VIASYN)		
Hardware Product Brief	228.0050.006	2	Specifications Chart	227.0045.015	2	Compatibility Matrix	228.0025.004	2
CBM 8032			790			Hardware Product Brief	228.0050.051	2
Compatibility Matrix	228.0025.001	2	Specifications Chart	228.0045.006	2	Specifications Chart	228.0045.042	2
Hardware Product Brief	228.0050.006	2	795			CompuPro 816/10+2 (VIASYN)		
Specifications Chart	228.0045.004	2	Specifications Chart	227.0045.015	2	Specifications Chart	227.0045.076	2
C128			Compucount			CompuPro 816/10+40 (VIASYN)		
Specifications Chart	228.0045.004	2	Bookkeeping System	202.0035.003	1	Specifications Chart	227.0045.076	2
SP9000 SuperPET			Compugraphic			Compusol		
Compatibility Matrix	228.0025.001	2	Personal Composition System	215.0035.008	1	Dental Lab IV	215.0035.009	1
Hardware Product Brief	228.0050.006	2	Compumax			Computech Group		
VICMODEM Long-Haul Modem			Bill of Materials	219.0035.001	1	SOLOMON III Payroll	203.0035.003	1
Specifications Chart	237.0045.004	2	MICROBASE	221.0035.003	2	SOLOMON-III Fixed Assets	202.0035.003	1
8010 Long-Haul Modem			MRP II (Manufacturing Resource Planning II)	219.0035.002	1	SOLOMON-III General Ledger	202.0035.003	1
Specifications Chart	237.0045.004	2	Compupug			SOLOMON-III Inventory	206.0035.004	1
Communications Servers/1 & 100 Baseband LAN (Bridge Communications)			Health Care Accounting Package	215.0035.008	1	SOLOMON-III Sales Order Entry/ Invoicing	206.0035.004	1
Specifications Chart	238.0045.002	2	CompuPro			Computer Applications		
Commuter (Visual Computer)			CompuPro 10			Nibbles Away II	223.0035.002	2
Compatibility Matrix	229.0025.003	2	Compatibility Matrix	227.0025.001	2	Computer Associates		
Hardware Product Brief	229.0050.027	2	Hardware Product Brief	227.0050.011	2	CA-EXECUTIVE	208.0035.002	1
Commuter (Visual Technology)			CompuPro 816/A			EasyWriter I	218.0045.003	1
Specifications Chart	229.0045.017	2	Hardware Product Brief	228.0050.502	2	EasyWriter II	218.0045.003	1
Commx (Hawkeye Grafik)			CompuPro 816/B			SuperWriter	218.0045.004	1
Specifications Chart	222.0035.004	2	Compatibility Matrix	227.0025.001	2	Computer Automation		
Compact NP (Olympia USA)			Hardware Product Brief	227.0050.012	2	MicroSyFA		
Specifications Chart	235.0045.504	2	CompuPro 816/C			Compatibility Matrix	228.0025.001	2
Compact RO (Olympia USA)			Compatibility Matrix	227.0025.001	2	Hardware Product Brief	228.0050.008	2
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Sales Invoicing System	201.0035.002	1	CompuPro 816/E			CCI PC		
Sales Ledger	201.0035.003	1	Hardware Product Brief	228.0050.502	2	Compatibility Matrix	228.0025.001	2
Company Directory			CompuPro 816/F			Hardware Product Brief	228.0050.009	2
Diskette Devices			Compatibility Matrix	227.0025.001	2	Computer Consulting Services		
COMPAQ Computer			Hardware Product Brief	227.0050.014	2	Professional Timekeeping System	215.0035.009	1
COMPAQ			CompuPro 816/G and 816/Gg			Computer Control Systems		
Compatibility Matrix	229.0025.001	2	Compatibility Matrix	227.0025.001	2	AUTOSORT	223.0035.002	2
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COMPAQ DESKPRO			CompuPro 816/H			DB-FABS	224.0035.002	2
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COMPAQ DESKPRO 286			Hardware Product Brief	228.0050.503	2	Image	218.0035.005	1
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COMPAQ PLUS			Compatibility Matrix	227.0025.001	2	Miniterm 2100 Receive Only		
Compatibility Matrix	229.0025.001	2	Hardware Product Brief	227.0050.011	2	Specifications Chart	235.0045.010	2
Hardware Product Brief	229.0050.006	2	CompuPro 286 (VIASYN)			Miniterm 2200 Series		
Specifications Chart	229.0045.001	2	Specifications Chart	227.0045.075	2	Specifications Chart	235.0045.010	2
COMPAQ PORTABLE			CompuPro 816/A (CompuPro)			Computer Graphics Group		
Specifications Chart	229.0045.002	2	Hardware Product Brief	228.0050.502	2	PC Illustrator	217.0035.005	1
COMPAQ PORTABLE 286			CompuPro 816/A (VIASYN)			ProGraf	217.0035.005	1
Specifications Chart	229.0045.002	2	Compatibility Matrix	228.0025.004	2	Computer Hardware		
COMPAQ Telecommunications			Hardware Product Brief	228.0050.050	2	WHATSIT?	221.0035.004	2
TELECOMPAQ			Specifications Chart	228.0045.042	2	Computer Innovations		
Compatibility Matrix	228.0025.001	2	CompuPro 816/B (CompuPro)			C86-C Compiler	225.0035.002	2
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Compatibility Matrix	229.0025.001	2	CompuPro 816/C (VIASYN)			CALC RESULT PLUS	207.0035.005	1
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Specifications Chart	229.0045.005	2	CompuPro 816/E (CompuPro)			Specifications Chart	232.0045.006	2
COMPAT (Mycroft Labs)			Hardware Product Brief	228.0050.502	2	CM6426		
COMPLETE Computer Systems			CompuPro 816/E (VIASYN)			Specifications Chart	232.0045.006	2
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Complexx Systems			Hardware Product Brief	228.0050.051	2	Specifications Chart	232.0045.007	2
XLAN Baseband LAN			Specifications Chart	227.0045.077	2	CM7085		
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COMPOSITE (Geostat Systems International)			Compatibility Matrix	227.0025.001	2	Computer Methods		
216.0035.024	1		Hardware Product Brief	227.0050.013	2	CMI Profit	219.0035.002	1
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Concept (Corvus Systems)			Specifications Chart	232.0045.007	2	OmniDrive Model 5		
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Condor Computer			Compatibility Matrix	229.0025.001	2	OmniDrive Model 5		
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ALPHABETICAL LISTING

CPU 32016 (VIASYN)

DATA TECHNOLOGY

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CPZ-4800X (Intercontinental Micro Systems)			Specifications Chart	227.0045.022	2	CS Accounts Payable	200.0035.003	1
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CramRAM (Orchid Technology)			Specifications Chart	227.0045.022	2	CS General Ledger	202.0035.005	1
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CREATE (COMPLETE Computer Systems)			Specifications Chart	227.0045.022	2	CS Payroll	203.0035.005	1
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Creative Solutions			Technology	222.0035.002	2	Compatibility Matrix	227.0025.501	2
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Critical Path Analysis			Construction	215.0035.010	1	Specifications Chart	227.0045.023	2
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Cromemco			CYMA Accounts Receivable	201.0035.003	1	Specifications Chart	227.0045.024	2
C-10-SP			CYMA General Ledger	202.0035.005	1	DESKTOP GENERATION Series, Model 45		
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System 100			Medical	215.0035.011	1	microNOVA		
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Writemaster	218.0035.006	1	C2500, C2600 (Jonos)			Data Technology		
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BP-2000 Specifications Chart	235.0045.014	2	DBSI Information Systems MRPII Financial System	219.0035.002	1			
DP-20 Specifications Chart	235.0045.014	2						
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Dew Point and Bubble Point			Professional 350			FINDER-Survey 80	216.0035.009	1
Calculations (Kelix Software Systems)	216.0035.028	1	Specifications Chart	228.0045.010	2	FRAME 80	216.0035.009	1
DFX II (Alpha Logic Business Systems)	222.0035.001	2	Professional 380			HCS (Horizontal Curve Staking)	216.0035.009	1
dGRAPH (Fox & Geller)	217.0035.010	1	Specifications Chart	228.0045.010	2	MapCheck-Parcel Perimeter and Area		
DI-3000 (Precision Visuals)	217.0035.022	1	Rainbow 100 Memory Adapter Option			Check	216.0035.010	1
Diablo 635 (Xerox)			Specifications Chart	234.0045.005	2	Plotter-Survey 80	216.0035.010	1
Specifications Chart	235.0045.520	2	Rainbow 100			Stadia	216.0035.010	1
Diagnostics II (Supersoft)	224.0035.010	2	Specifications Chart	228.0045.011	2	VertiCurve	216.0035.011	1
Diagram-Master (Decision Resources)	217.0035.007	1	Rainbow 100B			WATNET (Water Network Analysis)	216.0035.011	1
Digraphic Systems			Specifications Chart	228.0045.011	2	Discovery 1600 (Action Computer Enterprise)		
COM PLUS			Rainbow 100B, 100+			Compatibility Matrix	227.0025.001	2
Specifications Chart	234.0045.106	2	Compatibility Matrix	228.0025.001	2	Hardware Product Brief	227.0050.001	2
COM 4			Hardware Product Brief	228.0050.012	2	Discovery 500 (Action Computer Enterprise)		
Specifications Chart	234.0045.106	2	Rainbow 190			Compatibility Matrix	227.0025.001	2
COM 8			Compatibility Matrix	228.0025.001	2	Hardware Product Brief	227.0050.001	2
Specifications Chart	234.0045.106	2	Hardware Product Brief	228.0050.013	2	Disk Drive Analyzer (Verbatim)	223.0035.011	2
EXTEND 384M			Specifications Chart	228.0045.011	2	DISK RECOVERY (Sensible Software)	223.0035.010	2
Specifications Chart	234.0045.004	2	RD50			Disk-Edit (DED) (Supersoft)	223.0035.011	2
EXTEND 512M			Specifications Chart	232.0045.011	2	Diskettes		
Specifications Chart	234.0045.004	2	RD31			(see reports beginning with 233)		
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Digital Computer			Specifications Chart	232.0045.011	2	Display Manager (Digital Research)	223.0035.005	2
OMNI Computer			RD52			Display Statecon Emulator Adapter (IBM)		
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Digital Equipment			Specifications Chart	232.0045.011	2	Zip Rate System	206.0035.005	1
DECmate II			RL02			Distributor System (Professional Business Computer Systems)	219.0035.008	1
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DECmate III			RK02 Diskette Device			Specifications Chart	233.0045.007	2
Specifications Chart	228.0045.009	2	Specifications Chart	233.0045.004	2	DK301-1/2 (Hitachi America)		
DECnet Baseband LAN			RK50 Diskette Device			Specifications Chart	232.0045.015	2
Specifications Chart	238.0045.006	2	Specifications Chart	233.0045.004	2	DK502-1/-2/-3 (Hitachi America)		
Ethernet Baseband LAN			VAXstation I			Specifications Chart	232.0045.015	2
Specifications Chart	238.0045.006	2	Compatibility Matrix	228.0025.001	2	DK503-1/-2 (Hitachi America)		
Extended Bit-Map Graphics Module			Hardware Product Brief	228.0050.013	2	Specifications Chart	232.0045.016	2
Specifications Chart	234.0045.304	2	VAXstation 1			DK511-3/-5/-8 (Hitachi America)		
Graphics Option			Specifications Chart	228.0045.012	2	Specifications Chart	232.0045.016	2
Specifications Chart	234.0045.305	2	256KB Memory Option			DK512-8/-12/-17 (Hitachi America)		
LA 100 Letterprinter and Letterwriter			Specifications Chart	234.0045.004	2	Specifications Chart	232.0045.016	2
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LA12 DECwriter and			Specifications Chart	234.0045.004	2	Specifications Chart	232.0045.016	2
CORRESPONDENT			8087 Option			DL 113B Long-Haul Modem (Infotron Systems)		
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LA120-RA/RB DECprinter III			DIGITAL FILTER (Dynamcomp)	216.0035.012	1	DL2400 (Fujitsu Systems of America)		
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LA210 Letterprinter			Bibliography	218.0035.007	1	DMB 192-192 (Univation)		
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LCPO1 Inkjet Printer			Field Companion	215.0035.013	1	DMB 768-768 (Univation)		
Specifications Chart	235.0045.018	2	Filefix	223.0035.004	2	Specifications Chart	234.0045.016	2
LN01 Laser Printer			Footnote	218.0035.007	1	DMEM (Dual Systems)		
Specifications Chart	235.0045.018	2	Milestone	204.0035.002	1	Specifications Chart	234.0045.005	2
LN03 Laser Printer			Random House Proofreader	218.0035.008	1	DMP 105 Dot Matrix Printer (Tandy (Radio Shack))		
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Specifications Chart	235.0045.018	2	HiNet/MRP	219.0035.003	1	Specifications Chart	235.0045.514	2
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Hardware Product Brief	227.0050.018	2	C Compiler	225.0035.003	2	DMS 816 (Digital Microsystems)		
MicroPDP-11/RC			CBASIC	225.0035.003	2	Specifications Chart	228.0045.012	2
Specifications Chart	227.0045.027	2	CBASIC/16	225.0035.003	2	DM12-10 (Qua Tech)		
MicroPDP-11/SV			CBASIC/86	225.0035.004	2	Specifications Chart	234.0045.118	2
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MicroPDP-11/23			CB86	225.0035.004	2	Specifications Chart	235.0045.503	2
Specifications Chart	227.0045.026	2	CIS COBOL	225.0035.004	2	DM8-10 (Qua Tech)		
MicroPDP-11/73			CP/M 2.2	220.0035.002	2	Specifications Chart	234.0045.118	2
Specifications Chart	227.0045.027	2	CP/M-68K	220.0035.002	2	DOCUMATE Word Processing (Applied Microcomputer Systems)	218.0035.002	1
MicroVAX and PDP-11/73 1MB			CP/M-86	220.0035.002	2	Documax (Signum Microsystems)	223.0035.011	2
Memory Add-On			DESPOOL	223.0035.004	2	Docutel/Olivetti		
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MicroVAX I			DR FORTRAN-77	225.0035.005	2	Specifications Chart	228.0045.012	2
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Hardware Product Brief	227.0050.506	2	Level II COBOL-86	225.0035.005	2			
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MicroVAX II			Pascal/MT+	225.0035.005	2			
Compatibility Matrix	227.0025.510	2	PL/1-80	225.0035.006	2			
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PDP-11/23-PLUS			XLT86	223.0035.005	2			
Compatibility Matrix	227.0025.002	2	DIMENSION (North Star Computers)					
Hardware Product Brief	227.0050.018	2	Compatibility Matrix	227.0025.501	2			
PQP03			Hardware Product Brief	227.0050.512	2			
Specifications Chart	235.0045.019	2	Specifications Chart	227.0045.054	2			
Professional 300 Series			Direct Aid					
Compatibility Matrix	228.0025.001	2	LawSearch	215.0035.013	1			
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M24			Specifications Chart	234.0045.006	2	DynaWriter (IntelSoft)	218.0035.013	1
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Dow Jones News/Retrieval	222.0035.002	2	Specifications Chart	227.0045.028	2	Specifications Chart	232.0045.005	2
Dow Jones Straight Talk	222.0035.003	2	83/80			D550 (Bull Peripherals)		
Market Analyzer	214.0035.003	1	Specifications Chart	227.0045.029	2	Specifications Chart	232.0045.005	2
Market Manager	214.0035.003	1	Duet-16 (Panafacom Ltd)			D570 (Bull Peripherals)		
Market Microscope	214.0035.004	1	Compatibility Matrix	228.0025.003	2	Specifications Chart	232.0045.005	2
DP-20 (Dataproducts)			Hardware Product Brief	228.0050.506	2	D585 (Bull Peripherals)		
Specifications Chart	235.0045.014	2	Duncan-Atwell Computerized Technologies			Specifications Chart	232.0045.005	2
DP-55 (Dataproducts)			Lenicad	217.0035.007	1			
Specifications Chart	235.0045.014	2	Leniflow/3270-Intelligent					
DP-80 (Norcom)			Flowcharting System	217.0035.008	1	E&U Engel Consulting		
Specifications Chart	235.0045.502	2	Lenimed-Medical/Dental Graphic			Angel-1		
DR FORTRAN-77 (Digital Research)	225.0035.005	2	Presentation System	217.0035.008	1	Specifications Chart	227.0045.029	2
DR Logo (Digital Research)	225.0035.005	2	Lenipen/PC-Intelligent Color Graphics			Baby-Angel 80		
Dr. Halo II (Media Cybermetrics)	217.0035.016	1	System	217.0035.008	1	Specifications Chart	227.0045.029	2
DRA010 (Alps Electric)			Leniplot-The Graphical Plotting System	217.0035.009	1	Baby-Angel 86		
Specifications Chart	232.0045.003	2	Leniprez-Executive Graphics &			Specifications Chart	227.0045.030	2
DRA020 (Alps Electric)			Presentation System	217.0035.009	1	Mighty Angel		
Specifications Chart	232.0045.004	2	DuoDisk Diskette Device (Apple Computer)			Specifications Chart	228.0045.013	2
DRA040 (Alps Electric)			Specifications Chart	233.0045.002	2	E-PAC1 (COADE)	216.0035.005	1
Specifications Chart	232.0045.004	2	Durango Poppy 186 (Molecular Computer)			Eagle Computer		
DRL010 (Alps Electric)			Specifications Chart	227.0045.047	2	Eagle PC Plus		
Specifications Chart	232.0045.004	2	Durango Poppy 286/186 (Molecular Computer)			Compatibility Matrix	228.0025.002	2
DRM020 (Alps Electric)			Specifications Chart	227.0045.047	2	Hardware Product Brief	228.0050.014	2
Specifications Chart	232.0045.004	2	dUTIL (Fox & Geller)	224.0035.004	2	Eagle PC Spirit XL		
DRS 20 (ICL Computers)			DVR Series II (Business Operating Systems)			Specifications Chart	229.0045.004	2
Specifications Chart	227.0045.037	2	Specifications Chart	227.0045.008	2	Eagle PC Spirit 2		
DS 180 Plus (Datasouth Computer)			DVW Microelectronics Ltd			Specifications Chart	229.0045.003	2
Specifications Chart	235.0045.016	2	Husky			Eagle PC Spirit 2, PC Spirit XL		
DS 220 (Datasouth Computer)			Compatibility Matrix	229.0025.001	2	Compatibility Matrix	229.0025.001	2
Specifications Chart	235.0045.016	2	Hardware Product Brief	229.0050.008	2	Hardware Product Brief	229.0050.009	2
DS-130 (Sentinal Computer)			DW/OS-55 (Wang Laboratories)			Eagle Turbo GT		
Specifications Chart	227.0045.067	2	Specifications Chart	235.0045.518	2	Specifications Chart	228.0045.014	2
DS-140 (Sentinal Computer)			DW/22-20 (Wang Laboratories)			Eagle Turbo XL		
Specifications Chart	227.0045.067	2	Specifications Chart	235.0045.518	2	Compatibility Matrix	228.0025.002	2
DS-170 (Sentinal Computer)			DWP 220 (Tandy (Radio Shack))			Hardware Product Brief	228.0050.015	2
Specifications Chart	227.0045.068	2	Specifications Chart	235.0045.514	2	Specifications Chart	228.0045.014	2
DS-180 (Sentinal Computer)			DWP 510 (Tandy (Radio Shack))			Eagle Turbo 2		
Specifications Chart	227.0045.068	2	Specifications Chart	235.0045.514	2	Specifications Chart	228.0045.013	2
DS-201 (Qua Tech)			DX 1500 (Axiom)			Eagle Enterprises		
Specifications Chart	234.0045.118	2	Specifications Chart	235.0045.004	2	CITATION	221.0035.007	2
DSDP-401 (Qua Tech)			DX 2000 (Axiom)			General Ledger	202.0035.005	1
Specifications Chart	234.0045.118	2	Specifications Chart	235.0045.004	2	Eagle Software Publishing		
DSMBLR II/III PRO-DUCE (Misosys)	224.0035.006	2	DX 2500 (Axiom)			Money Decisions Volume 1 and 2	214.0035.004	1
DT-D1000G (Panasonic Industrial)			Specifications Chart	235.0045.004	2	Earthwork (Pacsoft)	216.0035.034	1
Specifications Chart	236.0045.010	2	DX 3500 (Axiom)			Earthwork, Coordinate Geometry and		
DT-D1300D (Panasonic Industrial)			Specifications Chart	235.0045.005	2	Ditch Hydraulics (MPS Company)	216.0035.033	1
Specifications Chart	236.0045.010	2	DX-P1090 (Panasonic Industrial)			Easi-Disk RS-232 3.5-in. Diskette		
DT-H103 (Panasonic Industrial)			Specifications Chart	235.0045.504	2	Device (Analog & Digital Peripherals)		
Specifications Chart	236.0045.011	2	DX-10 (Epson America)			Specifications Chart	233.0045.001	2
DT-M140 (Panasonic Industrial)			Specifications Chart	235.0045.020	2	Easi-Disk RS-232 5.25-in. Diskette		
Specifications Chart	236.0045.011	2	DX-20 (Epson America)			Device (Analog & Digital Peripherals)		
DT-S101 (Panasonic Industrial)			Specifications Chart	235.0045.019	2	Specifications Chart	233.0045.001	2
Specifications Chart	236.0045.011	2	DX2100/DX2200 (Fujitsu Systems of America)			Easi-Disk RS-232 5.25-in. Diskette		
DTI Bookkeeper II Accounts Payable (Thoughtware Publishing)	200.0035.011	1	Specifications Chart	235.0045.024	2	Device (Analog & Digital Peripherals)		
DU-58/16 Diskette Device (Greco Systems)			Dymek Corp			Specifications Chart	233.0045.001	2
Specifications Chart	233.0045.006	2	RID	223.0035.005	2	Easy (MicroPro International)	218.0045.009	1
DU-58/55 Diskette Device (Greco Systems)			Dynabyte			Easy Accounts Payable (Burroughs)	200.0035.001	1
Specifications Chart	233.0045.006	2	Models 6000, 6000T			Easy Accounts Receivable (Burroughs)	201.0035.002	1
DU-58/8 Diskette Device (Greco Systems)			Compatibility Matrix	227.0025.002	2	Easy General Ledger (Burroughs)	202.0035.002	1
Specifications Chart	233.0045.006	2	Hardware Product Brief	227.0050.019	2	Easy Inventory (Burroughs)	206.0035.003	1
Dual Systems			Dynacomp			Easy Payroll (Burroughs)	203.0035.002	1
AIM-12			Active Circuit Analysis Program (ACAP)	216.0035.011	1	EasyBusiness Accounts Payable (Information Unlimited Software (IUS))	200.0035.006	1
Specifications Chart	234.0045.108	2	BEAM DEFLECTION	216.0035.011	1	EasyBusiness Accounts Receivable (Information Unlimited Software (IUS))	201.0035.006	1
AOM-12			DIGITAL FILTER	216.0035.012	1	EasyBusiness General Ledger (Information Unlimited Software (IUS))	202.0035.008	1
Specifications Chart	234.0045.108	2	HARMONIC ANALYZER	216.0035.012	1	EasyBusiness Payroll (Information Unlimited Software (IUS))	203.0035.009	1
Specifications Chart	234.0045.202	2	Microcomputer Circuit Analysis Program (MICRO-CAP)	216.0035.012	1	EasyCalc (Instant Software)	207.0035.010	1
CMEM			Microcomputer Logic Design Program (MICRO-LOGIC)	216.0035.012	1	EasyFiler (Information Unlimited Software (IUS))	221.0035.009	2
Specifications Chart	234.0045.005	2	ROOTS	216.0035.013	1	EasyPlanner (Sorcim/IUS)	207.0035.017	1
CPU-6800M L10			Transfer Function Analyzer (TFA)	216.0035.013	1	Easyproof Spelling Checker (Norell Data Systems)	218.0035.019	1
Specifications Chart	234.0045.005	2	Dynamic Load Analysis (Ecom Associates)	216.0035.014	1	Easytext (Norell Data Systems)	218.0035.020	1
DMEM			Dynamic Memory Board (Tecmar)			EasyWriter I (Computer Associates)	218.0045.003	1
Specifications Chart	234.0045.005	2	Specifications Chart	234.0045.013	2	EasyWriter I System (Information Unlimited Software (IUS))	218.0035.012	1
EMEM						EasyWriter II (Computer Associates)	218.0045.003	1
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EPROM								
Specifications Chart	234.0045.006	2						
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ALPHABETICAL LISTING

EATON PRINTER PRODUCTS

EPSON AMERICA

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Specifications Chart	235.0045.019	2	ICC-1			Ensign (IBC/Integrated Business Computers)		
4110			Specifications Chart	234.0045.109	2	Specifications Chart	227.0045.035	2
Specifications Chart	235.0045.019	2	MEM-2			Ensign Software		
EAZYGRAF (Miracle Computing)			Specifications Chart	234.0045.006	2	Commodity Futures Historical Price Charts	214.0035.004	1
ECCELL (Orchid Technology)			VME-488			Commodity Futures Real-Time Tic Charts	214.0035.005	1
Specifications Chart	234.0045.205	2	Specifications Chart	234.0045.109	2	Entek Mapping System (EMAP) (Entek Scientific)		
ECD 1904/2504 (Electrohome)			Elite Software Development			Entek Modal Analysis (EMODAL) (Entek Scientific)	216.0035.021	1
Specifications Chart	236.0045.004	2	Building Energy Analysis	216.0035.019	1	Entek Programmable Spectrum Analyzer (EPRAN) (Entek Scientific)	216.0035.022	1
Echocardiography Support System (Trinity Computing Systems)			Commercial Cooling & Heating Loads	216.0035.019	1	Entek Scientific		
ECM 1311 (Electrohome)			Lighting Fixture Calculation Program	216.0035.019	1	Entek Mapping System (EMAP)	216.0035.021	1
Specifications Chart	236.0045.005	2	S-PIPE (Service Supply Pipe Sizing)	216.0035.020	1	Entek Modal Analysis (EMODAL)	216.0035.021	1
ECM 1901 (Electrohome)			Short Circuit Calculation Program	216.0035.020	1	Entek Programmable Spectrum Analyzer (EPRAN)	216.0035.022	1
Specifications Chart	236.0045.005	2	U-Factor Calculation Program	216.0035.020	1	Entek Sound Intensity Measurement (ESIM)	216.0035.022	1
Ecom Associates			Ellis Computing			Entek Sound Intensity Measurement (ESIM) (Entek Scientific)		
Bolted Framed Beam Connection	216.0035.013	1	Nevada COBOL	225.0035.006	2	Enterprise Computer System		
Composite Steel Beam Design	216.0035.014	1	Nevada FORTRAN	225.0035.006	2	BMS (Builders Management System)	215.0035.013	1
Concrete Column Design	216.0035.014	1	Nevada GOBOL	225.0035.006	2	10301 Versatile Video Display Card		
Dynamic Load Analysis	216.0035.014	1	EMC			Specifications Chart	234.0045.305	2
Flat Slab Analysis and Design	216.0035.014	1	MAXEM 1			10303 STD Bus Color Terminal Card		
General Section Properties	216.0035.015	1	Specifications Chart	234.0045.006	2	Specifications Chart	234.0045.305	2
Re-Run Data Storage	216.0035.015	1	MAXEM 2			10611 Parallel I/O Board		
Shear Wall Analysis	216.0035.015	1	Specifications Chart	234.0045.202	2	Specifications Chart	234.0045.109	2
Snow Load Analysis	216.0035.015	1	EMEM (Dual Systems)			10764 Universal Non-volatile Memory Card		
Steel Beam Design	216.0035.016	1	Specifications Chart	234.0045.005	2	Specifications Chart	234.0045.007	2
Steel Column and Base Plate Design	216.0035.016	1	Emerald Systems			EPROM (Dual Systems)		
Stepped Column Analysis	216.0035.016	1	118/Maxtor			Specifications Chart	234.0045.006	2
Structural Engineering Programs	216.0035.016	1	Specifications Chart	232.0045.012	2	EPS		
85/CD-1 Reinforced Concrete Beam Design	216.0035.017	1	30/CDC			MicroFSC	207.0035.007	1
85/CD-2 Reinforced Concrete Column Design	216.0035.017	1	Specifications Chart	232.0045.012	2	Epson America		
85/CD-3 Flat Slab Analysis and Design	216.0035.017	1	40/CDC			AP-80		
85/FA-3 Plan Frame and Truss Analysis	216.0035.017	1	Specifications Chart	232.0045.012	2	Specifications Chart	235.0045.019	2
85/SD-1 Steel Beam Design	216.0035.018	1	55/CDC			DX-10		
85/SD-2 Steel Column Design	216.0035.018	1	Specifications Chart	232.0045.012	2	Specifications Chart	235.0045.020	2
Economic Insights			72/CDC			DX-20		
Techni-World	218.0045.005	1	Specifications Chart	232.0045.012	2	Specifications Chart	235.0045.020	2
World Writer	218.0045.005	1	Emerging Technology Consultants			DX-35		
ECONOMICS4 (COADE)			EDIX	218.0035.009	1	Specifications Chart	235.0045.019	2
Ecosoft			OFFIX	208.0035.003	1	FX-85, FX-185		
Microstat	216.0035.018	1	SPELLIX	218.0035.009	1	Specifications Chart	235.0045.020	2
Edit-Soft (Sensible Software)			The Professional Writer's Package	218.0045.005	1	Geneva PX-8		
EditIT (ITSoftware)			WORDIX	218.0035.009	1	Specifications Chart	229.0045.004	2
EDIX (Emerging Technology Consultants)			Employee Benefit Systems			HD-830		
Consultants	218.0035.009	1	(see reports beginning with 203)			Specifications Chart	232.0045.013	2
EEC Systems			Employee Opinion Survey (Appel & Kreiss Software)			HD-860		
LEX-11	218.0035.008	1	Emu-Tek (FTG Data Systems)			Specifications Chart	232.0045.013	2
Einstein			Emulex			HomeWriter 10		
GhostSpeller	218.0035.008	1	BoB Display Adaptor			Specifications Chart	235.0045.019	2
GhostWriter	218.0035.009	1	Specifications Chart	234.0045.305	2	HS080 Letterjet Portable		
Electric Pencil (IJG)			Bob-compatible Color Monitor			Specifications Chart	235.0045.020	2
Electric Pencil PC PRO-Pak (IJG)			Specifications Chart	236.0045.006	2	HX-20		
Electric Webster (Cornucopia Software)			Coax/3270			Compatibility Matrix	229.0025.001	2
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Electro Design			Color Combo			Specifications Chart	229.0045.004	2
COMBI-4			Specifications Chart	234.0045.203	2	HX-40		
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IMP-18			Specifications Chart	234.0045.007	2	PX-8 Personal Computer		
Specifications Chart	228.0045.015	2	Mini-Mono Card			Compatibility Matrix	229.0025.001	2
MEMCARD			Specifications Chart	234.0045.305	2	Hardware Product Brief	229.0050.010	2
Specifications Chart	234.0045.006	2	Mono Combo			Specifications Chart	228.0025.002	2
Electrocon International			Multiple Protocol Communications Controller			Hardware Product Brief	228.0050.015	2
Electrocon IBM PC Power Flow Program	216.0035.018	1	Specifications Chart	234.0045.109	2	QX-10		
Electrohome			PC/Memory Plus Clock			Compatibility Matrix	228.0025.002	2
ECD 1904/2504			Specifications Chart	234.0045.007	2	Specifications Chart	228.0050.015	2
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ECM 1311			Specifications Chart	234.0045.007	2	Specifications Chart	233.0045.005	2
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ECM 1901			Specifications Chart	234.0045.203	2	Specifications Chart	233.0045.005	2
Specifications Chart	236.0045.005	2	Short-Port Color Card			SD-521 Diskette Device		
EVM 1220			Specifications Chart	234.0045.305	2	Specifications Chart	233.0045.005	2
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EVM 1519			Specifications Chart	234.0045.203	2	Specifications Chart	233.0045.005	2
Specifications Chart	236.0045.005	2	ENCORE! (Ferox Microsystems)			SD-560 Diskette Device		
EVM 1719			Specifications Chart	207.0035.008	1	Specifications Chart	233.0045.005	2
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EVM 2319			Energy			Specifications Chart	234.0045.112	2
Specifications Chart	236.0045.006	2	BETH	216.0035.021	1	Enhanced Display Station Emulation Program (IBM)		
EVM 920			Enertronics Research				222.0035.006	2
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FINANCIAL SYSTEMS

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Specifications Chart	233.0045.005	2	Excelan			Specifications Chart	235.0045.022	2
SMD-120 Diskette Device			Excelan Open Systems (EXOS)			4528T		
Specifications Chart	233.0045.005	2	Baseband LAN			Specifications Chart	235.0045.022	2
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SMD-140 Diskette Device			Baseband LAN (Excelan)			4542		
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SMD-150 Diskette Device			Excelerator (Index Technology Corp (InTech))	224.0035.004	2	4544		
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SMD-160 Diskette Device			Execucum Systems			4560		
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SMD-170 Diskette Device			Execuplan II (Vector Graphic)	207.0035.021	1	4565		
Specifications Chart	233.0045.006	2	EXECUPORT XL Series (Computer Transceiver Systems)			Specifications Chart	235.0045.023	2
SMD-180 Diskette Device			Compatibility Matrix	229.0025.001	2	4580		
Specifications Chart	233.0045.006	2	Hardware Product Brief	229.0050.006	2	Specifications Chart	235.0045.023	2
SMD-200 Diskette Device			Executec			Farm and Grower Commodity Sales and Billing (Micro-Crop)	215.0035.020	1
Specifications Chart	233.0045.006	2	Execu/ MODEL	207.0035.008	1	Farm Equipment Dealer (Micro-Crop)	215.0035.020	1
Spectrum LX-80			SeriesOnePlus	208.0035.003	1	Farmland Computer Systems		
Specifications Chart	235.0045.021	2	Executive (Osborne Computer)			Crop Management Package	215.0035.014	1
Spectrum LX-90			Compatibility Matrix	229.0025.002	2	Dairy Herd Management Package	215.0035.014	1
Specifications Chart	235.0045.021	2	Hardware Product Brief	229.0050.017	2	Farms Supplies Management (Micro-Crop)	215.0035.021	1
SQ 2000			Executive Partner FT-70F1 & FT-70 (Panasonic Industrial)			Fast Feedback Technologies		
Specifications Chart	235.0045.020	2	Specifications Chart	229.0045.011	2	Flashcard		
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eRAM 80 (Quadram)			Specifications Chart	229.0045.011	2	M-500		
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Ericsson			Executive Secretary (SOFSYS)	218.0035.028	1	1553-Net		
Ericsson PC			Executive Software			Specifications Chart	234.0045.110	2
Compatibility Matrix	228.0025.002	2	Decision Analyst	207.0035.008	1	Fast Food Management System (Cado Systems)	215.0035.006	1
Hardware Product Brief	228.0050.016	2	Executive Word Processor (MultiMate International)	218.0045.011	1	Fast Graphs (Innovative Software)	217.0035.015	1
Specifications Chart	228.0045.015	2	Executive 816 (AMust Compak Manufacturing Pty)			FCPAK (Physical Sciences)	216.0035.036	1
Errex			Compatibility Matrix	229.0025.001	2	FD 1165 Diskette Device (Dual Systems)		
EXETTE			Hardware Product Brief	229.0050.003	2	Specifications Chart	233.0045.004	2
ES.1 (Zaisan)			Execuware	224.0035.003	2	FD-35 Series Diskette Device (TEAC)		
Specifications Chart	228.0045.044	2	Real Estate Analysis Package (REAP)	215.0035.013	1	Specifications Chart	233.0045.012	2
ES.3 (Zaisan)			EXETTE (Errex)	223.0035.006	2	FD-55 Series Diskette Device (TEAC)		
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ESCOM			Specifications Chart	234.0045.206	2	FDD-420 Diskette Device (Personal Micro Computers)		
Manufacturing Management & Control (MMC)	219.0035.001	1	Expansion Memory MP11 (AST Research)			Specifications Chart	233.0045.011	2
ESP (Alpha Software)	207.0035.002	1	Specifications Chart	234.0045.001	2	FDD-421 Diskette Device (Personal Micro Computers)		
ESP Computer Resources			EXT-4175 (Maxtor)			Specifications Chart	233.0045.011	2
dataKEYper	221.0035.007	2	Specifications Chart	232.0045.017	2	FDD-422 Diskette Device (Personal Micro Computers)		
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DBS 16			Specifications Chart	232.0045.017	2	Feedlot System (Micro-Crop)	215.0035.021	1
Compatibility Matrix	227.0025.002	2	EXT-4380 (Maxtor)			Feith Systems and Software		
Hardware Product Brief	227.0050.019	2	Specifications Chart	232.0045.018	2	Accounts Payable	200.0035.004	1
ESQ-1 Legal Time and Billing (Micro Information Systems)	215.0035.019	1	EXTEND 384M (Digigraphic Systems)			Accounts Receivable	201.0035.004	1
ESTIMACS (MACS/ Management & Computer Services)	204.0035.003	1	Specifications Chart	234.0045.004	2	General Ledger	202.0035.006	1
ESTIMATION (Tipnis)	219.0035.008	1	EXTEND 512M (Digigraphic Systems)			Inventory Control System	206.0035.006	1
ESW 3000 (Olympia USA)			Specifications Chart	234.0045.004	2	Payroll Personnel	203.0035.006	1
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Ethernet Baseband LAN (Digital Equipment)			Specifications Chart	234.0045.004	2	Rental Property Management	215.0035.014	1
Specifications Chart	238.0045.006	2	Extended Bit-Map Graphics Module (Digital Equipment)			Retail Appliance Store System	206.0035.006	1
Ethernet Baseband LAN (Texas Instruments)			Specifications Chart	234.0045.304	2	Sales Order Entry	206.0035.007	1
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WMAZ-4 Series			4511			Financial Package for Service Stations (FPSS) (Single Source Solution)	215.0035.024	1
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EVM 1220 (Electrohome)			4512			Financial Software Series (Intro-Logic)	205.0035.006	1
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EVM 1519 (Electrohome)			4513			BankDisk Asset and Liability Management	214.0035.005	1
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FINANCIAL TECHNOLOGY

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First Principles Software			MEMBD-001 Specifications Chart	234.0045.008	2	GBSm (Alexander Grant & Co) Specifications Chart	205.0035.001	1
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FLASHCALC 1.00 (Process Systems International)	216.0035.037	1	M222X Series Specifications Chart	232.0045.013	2	DataComm 103J Long-Haul Modem Specifications Chart	237.0045.005	2
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Specifications Chart			M224X Series Specifications Chart	232.0045.013	2	General Instrument Broad Com Broadband LAN Specifications Chart	238.0045.203	2
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Florida Data Models 3000, OSP-130 Specifications Chart	235.0045.024	2	SP320 Specifications Chart	235.0045.025	2	General Ledger (Eagle Enterprises)	202.0035.005	1
Florida State University KEY2DISK	223.0035.006	2	SP830 Specifications Chart	228.0025.002	2	General Ledger (Faith Systems and Software)	202.0035.006	1
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4440			GraphPlan (Chang Labs)	217.0035.004	1	UTILIBILL	215.0035.015	1
Specifications Chart	235.0045.027	2	Graphwriter (Graphic Communications)	217.0035.012	1	Hawkeye Grafix		
5010			Grappler C (Orange Micro)			Commx	222.0035.004	2
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Geocomp			Grappler+ (Orange Micro)			Inventory	206.0035.007	1
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Geograf (Geocomp)	217.0035.011	1	Great Plains Software			Payroll	203.0035.007	1
Geostat Systems International			Hardisk Accounting Series	205.0035.004	1	PIE Writer	218.0035.010	1
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GhostSpeller (Einstein)	218.0035.008	1	Greco Systems			Hayes Microcomputer Products		
GhostWriter (Einstein)	218.0035.009	1	DU-58/16 Diskette Device			Micromodem II Long-Haul Modem		
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MR2PS	219.0035.001	1	DU-58/55 Diskette Device			Micromodem 100 Long-Haul Modem		
Gimix			Specifications Chart	233.0045.006	2	Specifications Chart	237.0045.006	2
GMX III			DU-58/8 Diskette Device			Please	221.0035.007	2
Specifications Chart	227.0045.034	2	Specifications Chart	233.0045.006	2	Smartcom I	222.0035.004	2
GMX 020			PS2/2700 Diskette Device			Smartcom II	222.0035.005	2
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GL/M (Aspect)	217.0035.002	1	PS2/400 Diskette Device			Specifications Chart	237.0045.006	2
GLP (Centronics)			Specifications Chart	233.0045.007	2	HayesSys (Abstract Systems)	222.0035.001	2
Specifications Chart	235.0045.007	2	PS2/800 Diskette Device			HCS (Horizontal Curve Staking) (Disco-Tech)	216.0035.009	1
GM 3305H Diskette Device (Okidata)			Specifications Chart	233.0045.007	2	HD-830 (Epson America)		
Specifications Chart	233.0045.010	2	Grid Systems			Specifications Chart	232.0045.013	2
GM 3315B Diskette Device (Okidata)			Compass			HD-860 (Epson America)		
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GMX III (Gimix)			Hardware Product Brief	229.0050.010	2	Head Start Baseband LAN (Intertec Data Systems)		
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GMX 020 (Gimix)			Specifications Chart	229.0045.005	2	The Headlands Press		
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Gold Quadboard (Quadram)			Compatibility Matrix	229.0025.001	2	Headstart ATS (Intertec Data Systems)		
Specifications Chart	234.0045.206	2	Hardware Product Brief	229.0050.010	2	Compatibility Matrix	227.0025.501	2
Golden State Business Systems			Specifications Chart	229.0045.005	2	Hardware Product Brief	227.0050.509	2
SERCAL	216.0035.024	1	GRIDCase			HeadStart ATS-286 (Intertec Data Systems)		
Golemics			Specifications Chart	229.0045.006	2	Specifications Chart	227.0045.042	2
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Goliath (Logical Business Machines)			Accounts Payable	200.0035.005	1	Specifications Chart	227.0045.042	2
Specifications Chart	227.0045.046	2	Financial Analysis	207.0035.009	1	Health Care Accounting Package (Compupug)	215.0035.008	1
Gould			General Accounting	205.0035.004	1	Health Services Applications		
Modway Baseband LAN			General Ledger	202.0035.006	1	(see Professional Services reports beginning with 215)		
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Modway Broadband LAN			Wholesale Distribution	206.0035.007	1	AO543		
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GO687 (Hecon)			GSS-KERNEL (Graphic Software Systems)	216.0035.025	1	AO556		
Specifications Chart	235.0045.028	2	GSS-PLOT (Graphic Software Systems)	216.0035.025	1	Specifications Chart	235.0045.027	2
GRAFCALC (Miracle Computing)	217.0035.020	1	GSS-Terminal (Graphics Software Systems)	217.0035.012	1	GO687		
GraFIX PARTNER (Brightbill-Roberts and Company Ltd.)	217.0035.003	1	GSS-4010 (Graphic Software Systems)	216.0035.025	1	Specifications Chart	235.0045.028	2
GRAFMAKER (Precision Visuals)	217.0035.022	1	GTE Lenkurt			Helix Systems & Development		
GRAFMATIC (Microcompatibles)	217.0035.018	1	25D Long-Haul Modem			Helix ABM		
Grafo (Fox & Geller)	217.0035.010	1	Specifications Chart	237.0045.006	2	Specifications Chart	234.0045.008	2
GrafTalk (Redding Group)	217.0035.023	1	Gutenberg Sr (Micromation Ltd)	218.0035.017	1	Helix PC Bubble Disk II		
Grande Byte (STB Systems)			GXB-1000A (Matrox Electronic Systems)			Specifications Chart	234.0045.008	2
Specifications Chart	234.0045.013	2	Specifications Chart	234.0045.307	2	Hemenway		
Grants Accounting System (Designers & Builders of Information Systems (DBIS))	215.0035.011	1	H&H Scientific			OS/ENGINE	220.0035.003	2
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GRAPH 'N' CALC (Haba Systems)	207.0035.009	1	H-136 (Centronics)			Hercules (General Robotics)		
Graph Dazzler (Sigma Designs)			Specifications Chart	235.0045.007	2	Specifications Chart	227.0045.033	2
Specifications Chart	234.0045.311	2	H-80 (Centronics)			Hercules Color Card (Hercules Computer Technology)		
Graph Dazzler II (Sigma Designs)			Specifications Chart	235.0045.007	2	Specifications Chart	234.0045.306	2
Specifications Chart	234.0045.311	2	Haba Systems			Hercules Computer Technology		
Graphic Communications			GRAPH 'N' CALC	207.0035.009	1	Hercules Color Card		
Freelance	217.0035.011	1				Specifications Chart	234.0045.306	2
Graphwriter	217.0035.012	1						
Graphic Software Systems								
GSS-KERNEL	216.0035.025	1						
GSS-PLOT	216.0035.025	1						
GSS-4010	216.0035.025	1						

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HERCULES GRAPHICS CARD (HERCULES COMPUTER TECHNOLOGY)

HP 7920M/7925M (HEWLETT-PACKARD)

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Hercules Graphics Card (Hercules Computer Technology)			HP-75D Handheld Computer Specifications Chart	229.0045.006	2	Horizon (North Star Computers)		
Specifications Chart	234.0045.306	2	HP-85B Specifications Chart	228.0045.018	2	Compatibility Matrix	227.0025.003	2
Heritage Holdings			HP-86B Specifications Chart	228.0045.018	2	Hardware Product Brief	227.0050.028	2
JEWEL General Ledger	202.0035.007	1	Integral PC			Horizon Software Systems		
JEWEL Payroll	203.0035.007	1	Compatibility Matrix	229.0025.001	2	Horizon WordProcessing	218.0035.011	1
HES Writer (Human Engineered Software)	218.0035.011	1	Hardware Product Brief	229.0050.011	2	Horizon WordProcessing (Horizon Software Systems)	218.0035.011	1
Heurikon			PH 9143L/9133L			HORIZON 8/16 (North Star Computers)		
Minibox			Specifications Chart	232.0045.015	2	Specifications Chart	227.0045.054	2
Specifications Chart	227.0045.034	2	Surveying Application Pac	216.0035.026	1	Hostess 4/8 (Control Systems)		
814/MLZ			The Portfolio Management Pac	214.0035.008	1	Specifications Chart	234.0045.106	2
Specifications Chart	228.0045.016	2	Touchscreen Personal Computer			HOTEL-2000 (Unique Information Systems)		
814/68010			Compatibility Matrix	228.0025.002	2	Specifications Chart	215.0035.030	1
Specifications Chart	227.0045.034	2	Hardware Product Brief	228.0050.019	2	HotLink (Orange Micro)		
Hewlett-Packard			Touchscreen Personal Computer (HP 150)			Specifications Chart	234.0045.309	2
Graphics Presentations Application Pac	216.0035.025	1	Specifications Chart	228.0045.018	2	Howard Software Services		
Graphics Presentations Pac	216.0035.026	1	Waveform Analysis Application Pac	216.0035.026	1	Real Estate Analyzer	215.0035.015	1
HP Portable PLUS			13265A Long-Haul Modem			Howe Software		
Specifications Chart	229.0045.007	2	Specifications Chart	237.0045.006	2	Smart Terminal	222.0035.005	2
HP Series 80			82950A Long-Haul Modem			Hoyle & Hoyle Software		
Compatibility Matrix	228.0025.002	2	Specifications Chart	237.0045.006	2	QUERY12	221.0035.008	2
Hardware Product Brief	228.0050.019	2	HFK Software			HP Portable PLUS (Hewlett-Packard)		
HP 110			Qwerty	218.0035.010	1	Specifications Chart	229.0045.007	2
Compatibility Matrix	229.0025.001	2	High Technology Software Products			HP Series 80 (Hewlett-Packard)		
Hardware Product Brief	229.0050.011	2	JCS (Job Control System)	219.0035.003	1	Compatibility Matrix	228.0025.002	2
HP 200 Series Model 216			PACE (Prompt Accurate Cost Estimating)	219.0035.004	1	Hardware Product Brief	228.0050.019	2
Specifications Chart	228.0045.016	2	Higley & Co			HP 110 (Hewlett-Packard)		
HP 200 Series Model 220			Payroll	203.0035.007	1	Compatibility Matrix	229.0025.001	2
Specifications Chart	228.0045.017	2	Hilderbay Ltd			Hardware Product Brief	229.0050.011	2
HP 200 Series Model 226			Hilderbay Payroll	203.0035.008	1	HP 200 Series Model 216 (Hewlett-Packard)		
Specifications Chart	228.0045.017	2	Hilderbay Payroll (Hilderbay Ltd)	203.0035.008	1	Specifications Chart	228.0045.016	2
HP 200 Series Model 236A			HiNet/MRP (Digital Microsystems)	219.0035.003	1	HP 200 Series Model 220 (Hewlett-Packard)		
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HP 200 Series Model 236C			DK301-1/2			HP 200 Series Model 226 (Hewlett-Packard)		
Specifications Chart	228.0045.017	2	Specifications Chart	232.0045.015	2	Specifications Chart	228.0045.017	2
HP 2225 Family ThinkJet Printers			DK502-1/-2/-3			HP 200 Series Model 236A (Hewlett-Packard)		
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HP 2563A			DK503-1/-2			HP 200 Series Model 236C (Hewlett-Packard)		
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HP 2566A			DK511-3/-5/-8			HP 2225 Family ThinkJet Printers (Hewlett-Packard)		
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HP 2601A			DK512-8/-12/-17			HP 2563A (Hewlett-Packard)		
Specifications Chart	235.0045.029	2	Specifications Chart	232.0045.016	2	Specifications Chart	235.0045.028	2
HP 2602A			DK812S-5/-8/-12/-17			HP 2566A (Hewlett-Packard)		
Specifications Chart	235.0045.029	2	Specifications Chart	232.0045.016	2	Specifications Chart	235.0045.028	2
HP 2665A			DK814S-17/-24/-34			HP 2601A (Hewlett-Packard)		
Specifications Chart	235.0045.029	2	Specifications Chart	232.0045.016	2	Specifications Chart	235.0045.028	2
HP 2671A			DK815-5			HP 2602A (Hewlett-Packard)		
Specifications Chart	235.0045.029	2	Holiday Software			Specifications Chart	235.0045.029	2
HP 2671G			Database 3	221.0035.008	2	HP 2665A (Hewlett-Packard)		
Specifications Chart	235.0045.029	2	TYPEIT	223.0035.006	2	Specifications Chart	235.0045.028	2
HP 2686A LaserJet			Holoscans 28 (General Optonics)			HP 2671A (Hewlett-Packard)		
Specifications Chart	235.0045.029	2	Specifications Chart	235.0045.025	2	Specifications Chart	235.0045.029	2
HP 2686A LaserJet PLUS			Holoscans 40 (General Optonics)			HP 2671G (Hewlett-Packard)		
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HP 2687A			HomeWord (Sierra On-Line)			HP 2673A (Hewlett-Packard)		
Specifications Chart	235.0045.030	2	HomeWriter 10 (Epson America)			Specifications Chart	235.0045.029	2
HP 2932A General Purpose Printer			Specifications Chart	235.0045.019	2	HP 2686A LaserJet (Hewlett-Packard)		
Specifications Chart	235.0045.030	2	Honeywell Information Systems			Specifications Chart	235.0045.029	2
HP 2934A Office Printer			DIU 9607 Diskette Device			HP 2686A LaserJet PLUS (Hewlett-Packard)		
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HP 35731			microSystem NX			HP 2687A (Hewlett-Packard)		
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HP 35741			Hardware Product Brief	228.0050.020	2	HP 2932A General Purpose Printer (Hewlett-Packard)		
Specifications Chart	236.0045.006	2	microSystem PC			Specifications Chart	235.0045.030	2
HP 7906M			Specifications Chart	228.0045.019	2	HP 2934A Office Printer (Hewlett-Packard)		
Specifications Chart	232.0045.014	2	microSystem 6/10			Specifications Chart	235.0045.030	2
HP 7907A			Compatibility Matrix	228.0025.002	2	HP 35731 (Hewlett-Packard)		
Specifications Chart	232.0045.014	2	Hardware Product Brief	228.0050.020	2	Specifications Chart	236.0045.006	2
HP 7911P/7912P/7914P			Specifications Chart	228.0045.019	2	HP 35741 (Hewlett-Packard)		
Specifications Chart	232.0045.014	2	microSystem 6/20			Specifications Chart	236.0045.006	2
HP 7920M/7925M			Compatibility Matrix	227.0005.021	2	HP 7906M (Hewlett-Packard)		
Specifications Chart	232.0045.014	2	Hardware Product Brief	227.0025.002	2	Specifications Chart	232.0045.014	2
HP 7933H			Specifications Chart	235.0045.030	2	HP 7907A (Hewlett-Packard)		
Specifications Chart	232.0045.014	2	PRU7070/7071/7072			Specifications Chart	232.0045.014	2
HP 7941A/7945A			Specifications Chart	235.0045.030	2	HP 7911P/7912P/7914P (Hewlett-Packard)		
Specifications Chart	232.0045.015	2	PRU7075/7076/7077			Specifications Chart	232.0045.014	2
HP 9134H/9133H			Specifications Chart	235.0045.030	2	HP 7920M/7925M (Hewlett-Packard)		
Specifications Chart	232.0045.015	2	PRU7170/7171/7172			Specifications Chart	232.0045.014	2
HP 9154A/9153A			Specifications Chart	235.0045.030	2			
Specifications Chart	232.0045.015	2	PRU7175/7176/7177					
HP 9800 Series 200			Specifications Chart	235.0045.031	2			
Compatibility Matrix	228.0025.002	2	PRU7200/7210, Models 24 and 25					
Hardware Product Brief	228.0050.018	2	Specifications Chart	235.0045.031	2			

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Specifications Chart	232.0045.014	2	Specifications Chart	234.0045.302	2	Compatibility Matrix	229.0025.002	2
HP 7935H (Hewlett-Packard)			I-300 (Cleveland Codonics)			Hardware Product Brief	229.0050.012	2
Specifications Chart	232.0045.014	2	Specifications Chart	234.0045.303	2	Specifications Chart	229.0045.007	2
HP 7941A/7945A (Hewlett-Packard)			I/O Mini (AST Research)			Professional Graphics Controller (#1501)		
Specifications Chart	232.0045.015	2	Specifications Chart	234.0045.201	2	Specifications Chart	234.0045.307	2
HP 9134H/9133H (Hewlett-Packard)			I/O Plus II (AST Research)			Prototype Adapter		
Specifications Chart	232.0045.015	2	Specifications Chart	234.0045.201	2	Specifications Chart	234.0045.112	2
HP 9154A/9153A (Hewlett-Packard)			IBC System 68 (IBC/Integrated Business Computers)			Prototype Card (#1400)		
Specifications Chart	232.0045.015	2	Specifications Chart	227.0045.035	2	Specifications Chart	234.0045.307	2
HP 9800 Series 200 (Hewlett-Packard)			IBC/Integrated Business Computers			SDLC Communications Adapter		
Compatibility Matrix	228.0025.002	2	Cadet Series			Specifications Chart	234.0045.113	2
Hardware Product Brief	228.0050.018	2	Compatibility Matrix	227.0025.002	2	Serial/Parallel Adapter		
HP-71 Handheld Computer (Hewlett-Packard)			Hardware Product Brief	227.0050.022	2	Specifications Chart	234.0045.113	2
Specifications Chart	229.0045.006	2	Ensign			Series/1 Ring Baseband LAN		
HP-75D Handheld Computer (Hewlett-Packard)			Specifications Chart	227.0045.035	2	Specifications Chart	238.0045.008	2
Specifications Chart	229.0045.006	2	IBC System 68			System 9000		
HP-85B (Hewlett-Packard)			Specifications Chart	227.0045.035	2	Compatibility Matrix	228.0025.002	2
Specifications Chart	228.0045.018	2	MegaStar			Hardware Product Brief	228.0050.504	2
HP-86B (Hewlett-Packard)			Specifications Chart	227.0045.035	2	Specifications Chart	228.0045.022	2
Specifications Chart	228.0045.018	2	MultiStar			System/36 PC		
HSP-3609-212A (Miltipe)			Specifications Chart	227.0045.036	2	Compatibility Matrix	227.0025.501	2
Specifications Chart	235.0045.036	2	Super Cadet			Hardware Product Brief	227.0050.507	2
HS080 Letterjet Portable (Epson America)			Specifications Chart	227.0045.036	2	XT/370 Option Kit		
Specifications Chart	235.0045.020	2	IBM			Specifications Chart	234.0045.113	2
M Hudis & Associates			Asynchronous Communications Adapter			128KB Memory Expansion Option (#0209)		
BACWAT-Backwater in Prismatic Channels	216.0035.031	1	Specifications Chart	234.0045.111	2	Specifications Chart	234.0045.009	2
HYDRAU	216.0035.031	1	Asynchronous Communications Support Program	222.0035.005	2	256KB Memory Expansion (#1209)		
HYDROL	216.0035.031	1	Binary Synchronous Communications Adapter			Specifications Chart	234.0045.009	2
LTrans	216.0035.031	1	Specifications Chart	234.0045.111	2	3270 Personal Computer		
P MCUL	216.0035.032	1	Business Management Series	205.0035.005	1	Compatibility Matrix	228.0025.002	2
P MGEN	216.0035.032	1	Color/Graphics Monitor Adapter			Hardware Product Brief	228.0050.021	2
PIPWAT	216.0035.032	1	Specifications Chart	234.0045.306	2	Specifications Chart	228.0045.019	2
R-WALL	216.0035.032	1	Combination Adapter (#6000)			3270-PC/G, 3270-PC/GX		
Human Edge Software			Specifications Chart	234.0045.203	2	Specifications Chart	228.0045.020	2
The Sales Edge	215.0035.016	1	Display Station Emulator Adapter			3278/79 Emulation Adapter		
Human Engineered Software			Specifications Chart	234.0045.111	2	Specifications Chart	234.0045.111	2
HES Writer	218.0035.011	1	Enhanced Display Station Emulation Adapter			3852 Color Jetprinter		
Human Systems Dynamics			Specifications Chart	234.0045.112	2	Specifications Chart	235.0045.031	2
Calcu-Plot	217.0035.013	1	Enhanced Display Station Emulation Program	222.0035.006	2	4201 Proprinter		
Hunter & Ready			Game Control Adapter			Specifications Chart	235.0045.031	2
VRTX	220.0035.004	2	Specifications Chart	234.0045.112	2	4715		
Husky (DVW Microelectronics Ltd)			General Purpose Interface Bus Adapter			Specifications Chart	235.0045.031	2
Compatibility Matrix	229.0025.001	2	Specifications Chart	234.0045.112	2	4964 Diskette Unit		
Hardware Product Brief	229.0050.008	2	Graphics Memory Expansion Card (#1201)			Specifications Chart	233.0045.007	2
HX-12 (Princeton Graphic Systems)			Specifications Chart	234.0045.009	2	4965 Storage and I/O Expansion Unit, Models 001 and 30D		
Specifications Chart	236.0045.012	2	IBM PC AT/370 Option Kit			Specifications Chart	233.0045.007	2
HX-12E (Princeton Graphic Systems)			Specifications Chart	234.0045.112	2	512KB Memory Expansion Option (#0203)		
Specifications Chart	236.0045.012	2	IBM PC Data Acquisition and Control Adapter			Specifications Chart	234.0045.009	2
HX-20 (Epson America)			Specifications Chart	234.0045.112	2	5181 Compact Printer		
Compatibility Matrix	229.0025.001	2	IBM PC Enhanced Graphics Adapter (#1200)			Specifications Chart	235.0045.032	2
Hardware Product Brief	229.0050.009	2	Specifications Chart	234.0045.306	2	5182 Color Printer		
HX-20 Notebook Computer (Epson America)			Monochrome Display and Printer Adapter (#4900)			Specifications Chart	235.0045.032	2
Specifications Chart	229.0045.004	2	Specifications Chart	234.0045.307	2	5201 QUIETWRITER Printer		
HX-40 (Epson America)			PC Network Program	222.0035.006	2	Specifications Chart	235.0045.032	2
Specifications Chart	236.0045.012	2	PC Network SNA 3270 Emulation Program	222.0035.006	2	5216 Wheelprinter		
HX-9 (Princeton Graphic Systems)			PC Support/36	222.0035.006	2	Specifications Chart	235.0045.032	2
Specifications Chart	236.0045.012	2	PC-DOS	220.0035.004	2	5218-A2/-A3/-A4		
HX-9E (Princeton Graphic Systems)			PCjr			Specifications Chart	235.0045.032	2
Specifications Chart	216.0035.036	1	Compatibility Matrix	228.0025.002	2	5360 System Unit		
HXDESIGN (Physical Sciences)			Hardware Product Brief	228.0050.022	2	Specifications Chart	233.0045.007	2
Hyberbus Baseband LAN (Network Systems)			Specifications Chart	228.0045.020	2	5362 System Unit		
Specifications Chart	238.0045.011	2	Personal Computer			Specifications Chart	233.0045.007	2
HYDRAL (Hydrasoft)			Compatibility Matrix	228.0025.002	2	5531 Industrial Computer		
Hydrasoft			Hardware Product Brief	228.0050.022	2	Compatibility Matrix	228.0025.002	2
HYDRAL	216.0035.026	1	Specifications Chart	228.0045.020	2	Hardware Product Brief	228.0050.021	2
HYDRAU (M Hudis & Associates)			Personal Computer			Specifications Chart	228.0045.020	2
Specifications Chart	216.0035.031	1	Compatibility Matrix	228.0025.002	2	6360 Diskette Unit		
HYDROL (First Principles Software)			Hardware Product Brief	228.0050.022	2	Specifications Chart	233.0045.008	2
Specifications Chart	216.0035.022	1	Specifications Chart	228.0045.021	2	64K/256K Memory Expansion Option (#1013)		
HYDROL (M Hudis & Associates)			Personal Computer AT			Specifications Chart	234.0045.009	2
Specifications Chart	216.0035.031	1	Specifications Chart	227.0045.036	2	64KB Memory and Display Expansion (#0007)		
Hyperchannel Baseband LAN (Network Systems)			Personal Computer AT/370			Specifications Chart	234.0045.009	2
Specifications Chart	238.0045.011	2	Specifications Chart	227.0045.037	2	8100 Loop Baseband LAN		
HyperGraphics			Personal Computer Cluster Program	222.0035.007	2	Specifications Chart	238.0045.008	2
HyperGraphics Authoring Graphics System	217.0035.013	1	Personal Computer DisplayComm BSC			IBM Design Kit Diskette Device (Data Technology)		
HyperGraphics Business Presentation Graphics System	217.0035.013	1	Compatibility Matrix	228.0025.002	2	Specifications Chart	233.0045.003	2
I-Tower (NCR)			Hardware Product Brief	228.0050.023	2	IBM PC AT/370 Option Kit (IBM)		
Compatibility Matrix	227.0025.003	2	Specifications Chart	228.0045.021	2	Specifications Chart	234.0045.112	2
Hardware Product Brief	227.0050.027	2	Personal Computer XT/370			IBM PC Compatible RS-232 Easi-Disk Diskette Device (Analog & Digital Peripherals)		
Specifications Chart	227.0045.050	2	Compatibility Matrix	228.0025.002	2	Specifications Chart	233.0045.001	2
			Hardware Product Brief	228.0050.023	2			
			Specifications Chart	228.0045.021	2			
			Personal Services/PC	222.0035.007	2			

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IBM PC DATA ACQUISITION AND CONTROL ADAPTER (IBM)

INTERCONTINENTAL MICRO SYSTEMS

Description	Report No.	Vol. No.	Description	Report No.	Vol. No.	Description	Report No.	Vol. No.
IBM PC Data Acquisition and Control Adapter (IBM)			IMiGIT (Chrous Data Systems)	217.0035.005	1	Inner Loop Software		
Specifications Chart	234.0045.112	2	IMP-12 (Electro Design)			ScrollMate	223.0035.007	2
IBM PC Enhanced Graphics Adapter (= 1200) (IBM)			Specifications Chart	228.0045.014	2	VDTE2	222.0035.009	2
Specifications Chart	234.0045.306	2	IMP-18 (Electro Design)			Innovation 1007 CGP (Bronson Electronics)		
IBM 3270 Emulator (Zenith Data Systems)			Specifications Chart	228.0045.015	2	Specifications Chart	234.0045.302	2
Specifications Chart	222.0035.018	2	IMS Financial System (International Micro Systems (IMS))			Innovation 1008 RAM Board (Bronson Electronics)		
ICC-1 (Electronic Modular Systems)			IMS International			Specifications Chart	234.0045.002	2
Specifications Chart	234.0045.109	2	1600 Series, Model 1610			Innovative Software		
ICL Computers			Specifications Chart	227.0045.037	2	Fast Graphs	217.0035.015	1
DRS 20			1600 Series, Model 1620			Smart Word Processor	218.0045.006	1
Specifications Chart	227.0045.037	2	Specifications Chart	227.0045.038	2	Innovative Software Associates		
ICL Personal Computer			1600 Series, Model 1630			VIDEO/TRAK	215.0035.016	1
Compatibility Matrix	228.0025.002	2	Specifications Chart	227.0045.038	2	Instant Software		
Hardware Product Brief	228.0050.024	2	1600 Series, Model 1640			EasyCalc	207.0035.010	1
ICL Ltd			Specifications Chart	227.0045.038	2	Institute for Scientific Information		
ICL Personal Computer			800 Series, Model 810			Sci-Mate Personal Data Manager	221.0035.009	2
Compatibility Matrix	227.0025.002	2	Specifications Chart	227.0045.039	2	The Searcher	221.0035.009	2
Hardware Product Brief	227.0050.022	2	800 Series, Model 820			Institute of Industrial Engineers		
ICL Personal Computer (ICL Ltd)			Specifications Chart	227.0045.039	2	Production Control	216.0035.027	1
Compatibility Matrix	227.0025.002	2	800 Series, Model 830			Instor		
Hardware Product Brief	227.0050.022	2	Specifications Chart	227.0045.039	2	Instor/50 Diskette Unit		
ICOT			Imai Software Publishers			Specifications Chart	233.0045.008	2
103J Long-Haul Modem			PC Paintbrush	217.0035.014	1	Instor/85/2D Diskette Unit		
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ICR FutureSoft			IN 55 Series (Intertechnique)			Instor/85-1D Diskette Unit		
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IDEAcomm 1200			Ultraframe/16			Compatibility Matrix	227.0025.002	2
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IDEAgraph (GPR)			Industrial Computer Designs			Specifications Chart	227.0045.041	2
Specifications Chart	234.0045.307	2	Vantage Point Computer			Datavue DV 4000		
IDEAmax 384			Specifications Chart	228.0045.022	2	Specifications Chart	227.0045.041	2
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IDRIS (Whitesmiths Ltd)			PC/FOCUS	221.0035.008	2	Compatibility Matrix	227.0025.002	2
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ACCULINK Micro	222.0035.007	2	Video Software Management System	215.0035.016	1	Hardware Product Brief	227.0050.024	2
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IEEE-488 Interface Board (Scientific Solutions)			Linkup Coax			Specifications Chart	227.0045.041	2
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IJ 150 (Accon Computer)			Specifications Chart	234.0045.115	2	Hardware Product Brief	227.0050.508	2
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Image Printer II (Sensible Software)			EasyBusiness General Ledger	202.0035.008	1	Intelligent Technologies		
Image Processing			EasyBusiness Payroll	203.0035.009	1	PC-to-PC 4800 Baud	222.0035.009	2
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Imagewriter (Apple Computer)			DL 1138 Long-Haul Modem	206.0035.014	1	Movie Maker	217.0035.015	1
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			Infoware			Videodata Broadband LAN		
			RB3 Relationship Banking System	214.0035.008	1	Specifications Chart	238.0045.204	2
			INMASS (Microcomputer Consultants)	219.0035.006	1	Intercontinental Micro Systems		
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INTERNATIONAL BUSINESS MACHINES

KAYPRO

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CPZ-186			C Compiler	225.0035.007	2	JCS 810 (J C Information Systems)		
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International Data Processing			OSI-345	227.0045.043	2	Job Cost (Construction Data Control)	204.0035.002	1
IDP/Brokerage Administration System	214.0035.008	1	OSI-710	227.0045.043	2	Job Cost (CropCost) (EF Haskell & Associates)	215.0035.014	1
International Market Resources			Specifications Chart	227.0045.043	2	Job Cost (Great Plains Software)	204.0035.002	1
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International Micro Systems (IMS)			Micro/Scan	214.0035.009	1	Job Cost System (Peachtree Software)	204.0035.005	1
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IMS Financial System	205.0035.006	1	Specifications Chart	235.0045.032	2	Job Costing (Solomon Series Software)	204.0035.006	1
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Wholesale/Retail Distribution System	206.0035.009	1	STARWRITER D10-40			C2500		
International Software Alliance			Specifications Chart	235.0045.033	2	Hardware Product Brief	229.0050.012	2
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Interstate Voice Products			EditIT	218.0035.013	1	JRAM-AT (Tall Tree Systems)		
CSRB (Connected Speech Recognition Board)			KeepIT	221.0035.010	2	Specifications Chart	234.0045.208	2
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VRT 300			WritIT	218.0035.014	1	Specifications Chart	233.0045.010	2
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Headstart ATS			IV 1600/DUM VMEbus Development System (Ironics)			JU-455 Diskette Device (Panasonic Industrial)		
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Hardware Product Brief	227.0050.509	2	J C Information Systems			JU-475 Diskette Device (Panasonic Industrial)		
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IN 55 Series			Specifications Chart	227.0045.044	2	Specifications Chart	235.0045.034	2
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Inventory (Midwest Computer Center)	206.0035.010	1	Specifications Chart	236.0045.009	2	Compatibility Matrix	229.0025.002	2
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KEEPIT (ITSOFTWARE)

LOGICAL SYSTEMS

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S-Basic 286i Compatibility Matrix	227.0025.501	2	LaserWriter (Apple Computer) Specifications Chart	235.0045.003	2	LetterPro 20 (Qume) Specifications Chart	235.0045.510	2
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MCALL II (MICROCALL SERVICES)

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Specifications Chart	235.0045.036	2	Madallion Accounts Payable (Timberline Systems)	200.0035.012	1	Matrox Electronic Systems		
LPS-8 Laser Printing System (Wang Laboratories)			Madwest Software			GXB-1000A		
Specifications Chart	235.0045.518	2	Amperdump	217.0035.016	1	Specifications Chart	234.0045.307	2
LP25 (Digital Equipment)			Maestro AT Multifunction (Tecmar)			MACS-86/D		
Specifications Chart	235.0045.018	2	Specifications Chart	234.0045.209	2	Specifications Chart	228.0045.026	2
LP26 (Digital Equipment)			Magic Mailer (ARTSCI)	218.0035.002	1	MACS-86/R		
Specifications Chart	235.0045.018	2	Magic Memory (ARTSCI)	221.0035.002	2	Specifications Chart	228.0045.026	2
LP4080R (Ricoh)			Magic Spell (Zenith Data Systems)	218.0035.033	1	MIP-512		
Specifications Chart	235.0045.510	2	Magic Window II (ARTSCI)	218.0035.002	1	Specifications Chart	234.0045.307	2
LQ-1500 (Epson America)				218.0045.001	1	SX-900		
Specifications Chart	235.0045.021	2	Magic Window IIe (ARTSCI)	218.0045.001	1	Specifications Chart	234.0045.308	2
LQP02 (Digital Equipment)			Magic Words (ARTSCI)	218.0035.003	1	MAX-12 (Princeton Graphic Systems)		
Specifications Chart	235.0045.018	2	Magic Worksheet (Structured Systems Group (SSG))	207.0035.018	1	Specifications Chart	236.0045.012	2
LTrans (M Hudis & Associates)	216.0035.031	1	MagicCalc (ARTSCI)	207.0035.003	1	MAXEM 1 (EMC)		
Lumena (Tandy (Radio Shack))	217.0035.025	1	MagicPrint (Lifeboat Associates)	218.0035.015	1	Specifications Chart	234.0045.006	2
LW 400 (Centronics)			Magna Loop Baseband LAN (A. B. Dick)			MAXEM 2 (EMC)		
Specifications Chart	235.0045.007	2	Specifications Chart	238.0045.001	2	Specifications Chart	234.0045.202	2
LW 800 (Centronics)			MAI 2000 (Logical Business Machines)			Maximizer (Sigma Designs)	234.0045.207	2
Specifications Chart	235.0045.007	2	Specifications Chart	227.0045.046	2	Maxtor		
The LWWF Group			MAI/Basic Four			EXT-4175		
The Work Management System	215.0035.018	1	MAI 2000			Specifications Chart	232.0045.017	2
LX 528 (Accon Computer)			Specifications Chart	227.0045.046	2	EXT-4280		
Specifications Chart	235.0045.001	2	Mailing Lists			Specifications Chart	232.0045.017	2
LX 528AF (Accon Computer)			(see reports beginning with 218)			EXT-4380		
Specifications Chart	235.0045.001	2	Mandata Manage 2000 (Mandata Systems)	219.0035.004	1	Specifications Chart	232.0045.018	2
LZR-2610 (Dataproducts)			Mandata Systems			XT-1085		
Specifications Chart	235.0045.015	2	Mandata Manage 2000	219.0035.004	1	Specifications Chart	232.0045.018	2
LZR-2650/55 (Dataproducts)			Mannesmann Tally			XT-1105		
Specifications Chart	235.0045.015	2	MT 180			Specifications Chart	232.0045.018	2
LZR-2660/65 (Dataproducts)			Specifications Chart	235.0045.034	2	XT-1140		
Specifications Chart	235.0045.015	2	MT 290			Specifications Chart	232.0045.018	2
			Specifications Chart	235.0045.034	2	XT-2085		
M & D Systems			MT 420/440			Specifications Chart	232.0045.018	2
Business Software Package	205.0035.008	1	Specifications Chart	235.0045.035	2	XT-2140		
M.1 (Teknowledge)	207.0035.020	1	MT 460			Specifications Chart	232.0045.019	2
M-100L (Dataproducts)			Specifications Chart	235.0045.035	2	XT-2190		
Specifications Chart	235.0045.015	2	MT 490			Specifications Chart	232.0045.019	2
M-120 (Dataproducts)			Specifications Chart	235.0045.035	2	XT-3170		
Specifications Chart	235.0045.016	2	MT 660			Specifications Chart	232.0045.019	2
M-200 (Dataproducts)			Specifications Chart	235.0045.035	2	XT-3280		
Specifications Chart	235.0045.016	2	MT 85/86			Specifications Chart	232.0045.019	2
M/A-Com Linkabit			Specifications Chart	235.0045.035	2	Maxwell 1200 PC (Racal-Vadic)		
IDX-3000 Distributed Data Star			Manufacturing			Specifications Chart	234.0045.121	2
Baseband LAN			(see reports beginning with 219)			Maxwell 2400 PC (Racal-Vadic)		
Specifications Chart	238.0045.010	2	Manufacturing Control System (Production Systems)	219.0035.007	1	Specifications Chart	234.0045.121	2
M/20 (NNC Electronics)			Manufacturing Inventory-MRP (Neoteric Computer Systems)	219.0035.007	1	MB-121 (RCA New Product Division)		
Specifications Chart	227.0045.052	2	Manufacturing Management & Control (MMC) (ESCOM)	219.0035.001	1	Specifications Chart	236.0045.014	2
M/40 (NNC Electronics)			Manufacturing System (MCBA)	219.0035.005	1	MB-122 (RCA New Product Division)		
Specifications Chart	227.0045.052	2	MANX Software Systems			Specifications Chart	236.0045.014	2
MA-121 (RCA New Product Division)			Aztec C Compiler	225.0035.008	2	MB-142 (RCA New Product Division)		
Specifications Chart	236.0045.014	2	MapCheck-Parcel Perimeter and Area Check (Disco-Tech)	216.0035.010	1	Specifications Chart	236.0045.014	2
MA-122 (RCA New Product Division)			Mapping			MBC 1100, MBC 1150 (Sanyo)		
Specifications Chart	236.0045.014	2	(see reports beginning with 217)			Compatibility Matrix	228.0025.300	2
Macintosh (Apple Computer)			MARC Software International			Hardware Product Brief	228.0050.036	2
Compatibility Matrix	229.0025.001	2	WordMARC	218.0035.016	1	MBC 1200, MBC 1250 (Sanyo)		
Hardware Product Brief	229.0050.004	2		218.0045.008	1	Compatibility Matrix	228.0025.300	2
Specifications Chart	228.0045.002	2	Marine Management Systems			Hardware Product Brief	228.0050.037	2
Macintosh Hard Disk 20 (Apple Computer)			MMS CARGODOC	215.0035.018	1	MBC 4000, MBC 4050 (Sanyo)		
Specifications Chart	232.0045.004	2	Mark of the Unicorn			Compatibility Matrix	228.0025.300	2
Macintosh XL (Apple Computer)			Mince	218.0035.016	1	Hardware Product Brief	228.0050.037	2
Compatibility Matrix	228.0025.001	2	PC/Intercomm	222.0035.009	2	MBC 550, MBC 555 (Sanyo)		
Hardware Product Brief	228.0050.002	2	The Final Word	218.0035.016	1	Compatibility Matrix	228.0025.300	2
Macrotech International			The Finalword	218.0045.008	1	Hardware Product Brief	228.0050.038	2
ADIT			Mark 2 (Point 4 Data)			MBC 555-2 (Sanyo)		
Specifications Chart	234.0045.116	2	Specifications Chart	227.0045.061	2	Specifications Chart	228.0045.034	2
MI-286 80286/Z80H Dual Processor			MARK 2T (Point 4 Data)			MBC 880 (Sanyo)		
S-100 CPU board			Compatibility Matrix	227.0025.003	2	Specifications Chart	228.0045.034	2
Specifications Chart	234.0045.010	2	Hardware Product Brief	227.0050.034	2	MBC-675 (Sanyo)		
MSR Series			Market Analyzer (Dow Jones Software)	214.0035.003	1	Specifications Chart	229.0045.013	2
Specifications Chart	234.0045.010	2	Market Management System (MMS) (JEB Systems)	215.0035.017	1	MBC-775e (Sanyo)		
ST Series S-100 Static CMOS Memory						Specifications Chart	229.0045.013	2
Specifications Chart	234.0045.011	2				Mbp Software and Systems		
MACS-86/D (Matrox Electronic Systems)						Technology		
Specifications Chart	228.0045.026	2				mbp COBOL	225.0035.008	2
						MB861 (Comark)		
						Specifications Chart	227.0045.014	2
						MC Software		
						Accounts Payable	200.0035.007	1
						Accounts Receivable	201.0035.007	1
						MCALL II (MicroCALL Services)	222.0035.010	2

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MCBA

MICROGANTT (WESTICO)

Description	Report No.	Vol. No.	Description	Report No.	Vol. No.	Description	Report No.	Vol. No.
MCBA			Membership Billing (Micro Data)	201.0035.007	1	Professional Time and Billing (PROMOT)	215.0035.019	1
Accounting System	205.0035.007	1		215.0035.018	1	Taxexec	214.0035.010	1
Accounts Payable	200.0035.006	1	MEMCARD (Electro Design)			THE MAGIC QUILL	215.0035.019	1
Accounts Receivable	201.0035.007	1	Specifications Chart	234.0045.006	2	THE SCHEDULER	215.0035.020	1
Job Costing	204.0035.004	1	MemDISK (Logical Systems)	223.0035.007	2	Micro Innovative Technology		
Manufacturing System	219.0035.005	1	MEMORITE III (Vector Graphic)	218.0035.032	1	TransMIT	222.0035.010	2
MCC Software			Memory Companion/PC (STB Systems)			Micro Investment Systems		
Accounting Software Series	205.0035.008	1	Specifications Chart	234.0045.013	2	Stock Portfolio Reporter	214.0035.010	1
McCabe-Thiele Analysis (Kelix Software Systems)	216.0035.029	1	Memory/Shift (North American Business Systems)	208.0035.007	1	Micro Manufacturing Systems	219.0035.006	1
McCullough & Associates			Memotech Ltd			MCS-3		
MPAC	219.0035.006	1	MTX Series			Micro Peripherals		
McDonnell Douglas Computer Systems			Compatibility Matrix	228.0025.003	2	Printmate 350		
MICRODATA 1000			Hardware Product Brief	228.0050.027	2	Specifications Chart	235.0045.035	2
Compatibility Matrix	228.0025.002	2	Menu Master (Bytel)	224.0035.002	2	SXPrinter		
Hardware Product Brief	228.0050.027	2	MENU/POWERI (Computing)	223.0035.003	2	Specifications Chart	235.0045.036	2
MCS (Wicat Systems)	220.0035.009	2	MenuMaster (Borland International)	224.0035.001	2	Micro Storage		
MCS-3 (Micro Manufacturing Systems)	219.0035.006	1	Meridian DV-1 (Northern Telecom)			MS212		
Specifications Chart			Specifications Chart	227.0045.055	2	Specifications Chart	232.0045.019	2
MD 350 Diskette Device (Canon USA)	233.0045.002	2	Metamorphics			Micro Systems Software		
Specifications Chart			Metamorphics Insurance System (MIS)	214.0035.009	1	MTERM	222.0035.010	2
MD 351 Diskette Device (Canon USA)	233.0045.003	2	Metamorphics Insurance System (MIS) (Metamorphics)	214.0035.009	1	Micro Technology		
Specifications Chart			Metasoft			MD3100 Diskette Device	233.0045.008	2
MD 352 Diskette Device (Canon USA)	233.0045.003	2	BENCHMARK Mail List	218.0035.017	1	Specifications Chart		
Specifications Chart			Benchmark Word Processor	218.0045.009	1	MD3200 Diskette Device		
MD 353 Diskette Device (Canon USA)	233.0045.003	2	BENCHMARK 3.0	218.0035.017	1	Specifications Chart	233.0045.008	2
Specifications Chart			Metcut Research Associates			Micro W Distributed (Comshare)	207.0035.005	1
MDBS III (Micro Data Base Systems)	221.0035.011	2	CUTDATA	216.0035.033	1	Micro 16S (Fujitsu Systems of America)		
MDRIVE/H (VIASYN)	234.0045.017	2	MF 351 Diskette Device (Mitsubishi Electronics America)			Specifications Chart	227.0045.030	2
Specifications Chart			Specifications Chart	233.0045.009	2	Micro 16SX (Fujitsu Systems of America)		
MD3100 Diskette Device (Micro Technology)	233.0045.008	2	MF 353 Diskette Device (Mitsubishi Electronics America)			Specifications Chart	227.0045.030	2
Specifications Chart			Specifications Chart	233.0045.010	2	MICRO-AP		
MD3200 Diskette Device (Micro Technology)	233.0045.008	2	MF 353A Diskette Device (Mitsubishi Electronics America)			Selector V	221.0035.012	2
Specifications Chart			Specifications Chart	233.0045.010	2	MICRO-CAP (Spectrum Software)	216.0035.040	1
MedAccount (Software Products International)	215.0035.026	1	MF85-DOS Diskette Device (Comark)	233.0045.003	2	Micro-Crop		
Medallion Accounts Receivable (Timberline Systems)	201.0035.012	1	Specifications Chart	233.0045.003	2	Crop Management	215.0035.020	1
Medallion Collection - Accounting System (Timeline Systems)	205.0035.015	1	MF85-DSS Diskette Device (Comark)	233.0045.003	2	Farm and Grower Commodity Sales and Billing	215.0035.020	1
Medallion General Ledger (Timeline Systems)	202.0035.015	1	Specifications Chart			Farm Equipment Dealer	215.0035.020	1
Medallion Payroll (Timeline Systems)	203.0035.016	1	MI-286 80286/Z80H Dual Processor S-100 CPU board (Macrotech International)			Farms Supplies Management	215.0035.021	1
Media Cybermetrics			Specifications Chart	234.0045.010	2	Feedlot System	215.0035.021	1
Dr. Halo II	217.0035.016	1	MICA/GL (Micro Associates)	202.0035.009	1	Fertilizer Dealer	215.0035.021	1
Halo	217.0035.017	1	Micro Associates			Purveyor	215.0035.021	1
Nimbus	217.0035.017	1	MICA/GL	202.0035.009	1	Micro-DSS / Analysis (Addison-Wesley Publishing)	207.0035.001	1
Medical			Micro Business Applications			Micro-DSS / Finance (Addison-Wesley Publishing)	207.0035.001	1
(see Professional Services reports beginning with 215)			Accounting System Package	205.0035.009	1	Micro-DYNAMO (Addison-Wesley Publishing)	207.0035.002	1
Medical (CYMA)	215.0035.011	1	Job Cost	204.0035.004	1	Micro-FRS (Sendero)	214.0035.013	1
Medical Care Office System (MEDCOS) (Business Management Systems)	215.0035.006	1	Micro Business Systems			MICRO-LOGIC (Spectrum Software)	216.0035.040	1
Medical Management System (OR-D Systems)	215.0035.023	1	Client Write-up System	215.0035.018	1	MICRO / PDP-11 (Digital Equipment)		
Medical Manager (Systems Plus)	215.0035.028	1	Micro Control Systems			Compatibility Matrix	227.0025.002	2
Medical Office Management System (International Micro Systems (IMS))	215.0035.017	1	Advanced Space Graphics System	217.0035.017	1	Hardware Product Brief	227.0050.018	2
MEDIC80 (Basis)	215.0035.005	1	CADKEY	217.0035.018	1	Micro / PROPHIT (Via Computer)	207.0035.021	1
Mega Memory (Emulex)			Micro Data			Micro / Remote 3270 Emulator (Aton International)	222.0035.001	2
Specifications Chart	234.0045.007	2	Accounts Payable System	200.0035.007	1	Micro / Scan (Isys)	214.0035.009	1
Mega Memory (Persyst)			Accounts Receivable System	201.0035.007	1	MicroArt		
Specifications Chart	234.0045.007	2	Contractor Accounts Payable	200.0035.007	1	IMAGE Word / Graphics Processor	218.0045.009	1
Mega PC (Corona Data Systems)			Contractor Job Cost	204.0035.004	1	MICROBASE (Compumax)	221.0035.003	2
Specifications Chart	227.0045.017	2	Contractor Payroll	203.0035.009	1	MicroCAD (Imagemedia Technologies)	217.0035.014	1
Megabasic (American Planning)	225.0035.001	2	General Ledger	202.0035.009	1	MicroCALL Services		
Megadata			Integrated Accounting Software Series	205.0035.009	1	AMCALL	222.0035.010	2
8188-7			Membership Billing	201.0035.007	1	MCALL II	222.0035.010	2
Specifications Chart	228.0045.026	2	Payroll	203.0035.010	1	Microcobol (MPSI)	225.0035.011	2
Megahaus			Retail Inventory	206.0035.009	1	Microcompatibles		
MegaWriter	218.0035.016	1	Utility Billing	201.0035.008	1	GRAFMATIC	217.0035.018	1
Megalink Baseband LAN (Computrol)	238.0045.004	2	Micro Data Base Systems			OMNILOT	217.0035.018	1
Specifications Chart			Knowledge Man	221.0035.011	2	PLOTMATIC	217.0035.019	1
MegaPlus II (AST Research)	234.0045.201	2	MDBS III	221.0035.011	2	Microcomputer Circuit Analysis Program (MICRO-CAP) (Dynacomp)	216.0035.012	1
Specifications Chart			Micro Decision MD11 (Morrow)			Microcomputer Consultants		
MegaStar (IBC/Integrated Business Computers)			Compatibility Matrix	228.0025.003	2	General Ledger	202.0035.009	1
Specifications Chart	227.0045.035	2	Hardware Product Brief	228.0050.028	2	INMASS	219.0035.006	1
MegaWriter (Megahaus)	218.0035.016	1	Micro Finesse (P-E Consulting Group)	207.0035.013	1	Inventory Control	206.0035.009	1
MEM-2 (Electronic Modular Systems)			Micro Five Computers			Order Entry	206.0035.010	1
Specifications Chart	234.0045.006	2	Series 1000			Purchasing	206.0035.010	1
MEMBD-001 (Frontier Technologies)	234.0045.008	2	Compatibility Matrix	227.0025.003	2	Microcomputer Logic Design Program (MICRO-LOGIC) (Dynacomp)	216.0035.012	1
Specifications Chart			Hardware Product Brief	227.0050.025	2	Microcomputers		
Membership Accounts Receivable (Taranto & Associates)	201.0035.011	1	Specifications Chart	227.0045.046	2	(see reports beginning with 231)		
			Turbo 1700			MICRODATA 1000 (McDonnell Douglas Computer Systems)		
			Specifications Chart	227.0045.047	2	Compatibility Matrix	228.0025.002	2
			Micro Focus			Hardware Product Brief	228.0050.027	2
			ANIMATOR	224.0035.005	2	MicroDent (Software Hows)	215.0035.025	1
			FORMS-2	224.0035.006	2	MicroFSC (EPS)	207.0035.007	1
			Level II COBOL	225.0035.008	2	MicroGANTT (Westico)	204.0035.007	1
			Micro Information Systems					
			ESQ-1 Legal Time and Billing	215.0035.019	1			

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MICROGRAFX

MITSUBISHI ELECTRONICS AMERICA

Description	Report No.	Vol. No.	Description	Report No.	Vol. No.	Description	Report No.	Vol. No.
Micrografx			Microrim			Mighty Angel (E&U Engel Consulting)		
PC-Draw	217.0035.019	1	R:Base 4000	221.0035.012	2	Specifications Chart	228.0045.013	2
Microline 182/182 TTY/183 (Okidata)			MICROSCREENS (PMI Inc)	224.0035.007	2	Miles Computing		
Specifications Chart	235.0045.502	2	MICROSEEK (Comshare)	222.0035.001	2	Miles Payroll System	203.0035.010	1
Microline 192 (Okidata)			MicroSHELL (COADE)	216.0035.006	1	Miles Payroll System (Miles Computing)	203.0035.010	1
Specifications Chart	235.0045.502	2	MicroShell (New Generation Systems)	223.0035.009	2	Milestone (Digital Marketing)	204.0035.002	1
Microline 193 (Okidata)			Microsoft			Miller Microcomputer Services		
Specifications Chart	235.0045.503	2	Microsoft BASIC Compiler	225.0035.009	2	MMSFORTH	225.0035.011	2
Micomation Ltd			Microsoft BASIC Interpreter	225.0035.009	2	Miltotope		
Gutenberg Sr	218.0035.017	1	Microsoft Business BASIC Compiler	225.0035.009	2	Alpha 10 Diskette Device		
MicroMed (Software Hows)			Microsoft C Compiler	225.0035.009	2	Specifications Chart	233.0045.008	2
microNOVA (Data General)			Microsoft COBOL	225.0035.010	2	DD 400 Master Diskette Device		
Specifications Chart	227.0045.024	2	Microsoft FORTRAN	225.0035.010	2	Specifications Chart	233.0045.008	2
MicroPDP-11/RC (Digital Equipment)			Microsoft FORTRAN-80	225.0035.010	2	DD 400 Slave Diskette Device		
Specifications Chart	227.0045.027	2	Microsoft Pascal	225.0035.010	2	Specifications Chart	233.0045.009	2
MicroPDP-11/SV (Digital Equipment)			Microsoft Windows	208.0035.006	1	DD 400 W Diskette Device		
Specifications Chart	227.0045.027	2	Microsoft Word	218.0035.018	1	Specifications Chart	233.0045.009	2
MicroPDP-11/23 (Digital Equipment)			Microsoft Word (1.05)	218.0045.010	1	HSP-3609-212A		
Specifications Chart	227.0045.026	2	Microsoft Word (2.0)	218.0045.011	1	Specifications Chart	235.0045.036	2
MicroPDP-11/73 (Digital Equipment)			MS-DOS 1.25	220.0035.005	2	LP 3036		
Specifications Chart	227.0045.027	2	MS-DOS 2.0	220.0035.005	2	Specifications Chart	235.0045.036	2
MicroPeripheral			Multi-Tool Budget	207.0035.012	1	RDS86		
Atari Bus Decoding Long-Haul Modem			Multiplan	207.0035.012	1	Specifications Chart	232.0045.023	2
Specifications Chart	237.0045.007	2	Xenix Version 3.0	220.0035.005	2	RD10		
Atari RS232 Long-Haul Modem			Microsoft Windows (Microsoft)	208.0035.006	1	Specifications Chart	232.0045.022	2
Specifications Chart	237.0045.007	2	Microsoft Word (Microsoft)	218.0035.018	1	RD160		
European Microconnection Long-Haul Modem			MicroStandard Technologies			Specifications Chart	232.0045.022	2
Specifications Chart	237.0045.007	2	M3000			RD40		
IBM Microconnection Long-Haul Modem			Compatibility Matrix	229.0025.002	2	Specifications Chart	232.0045.023	2
Specifications Chart	237.0045.007	2	Hardware Product Brief	229.0050.015	2	RD45		
OEM Card Long-Haul Modem			Microstat (Ecosoft)	216.0035.018	1	Specifications Chart	232.0045.023	2
Specifications Chart	237.0045.008	2	MicroStor-10D (AST Research)			TP-2000		
TRS 80 Microconnection Long-Haul Modem			Specifications Chart	232.0045.005	2	Specifications Chart	235.0045.036	2
Specifications Chart	237.0045.008	2	MicroStor-20D (AST Research)			TP-3000		
MicroPlan (Chang Labs)			Specifications Chart	232.0045.005	2	Specifications Chart	235.0045.036	2
Compatibility Matrix	207.0035.004	1	MICROSTRAN (Unique Information Systems)	216.0035.041	1	Mince (Mark of the Unicorn)	218.0035.016	1
Hardware Product Brief	228.0025.001	2	Microstuf			Mini-Mono Card (Emulex)		
MicroPlus 700 Series (Centurion Computer)			CROSSTALK	222.0035.011	2	Specifications Chart	234.0045.305	2
Compatibility Matrix	228.0025.001	2	MicroSyFA (Computer Automation)			Minibox (Heurikon)		
Hardware Product Brief	228.0050.005	2	Compatibility Matrix	228.0025.001	2	Specifications Chart	227.0045.034	2
Micropolis			microSystem NX (Honeywell Information Systems)			MiniFrame Plus (Convergent Technologies)		
1302			Compatibility Matrix	228.0025.002	2	Specifications Chart	227.0045.017	2
Specifications Chart	232.0045.019	2	Hardware Product Brief	228.0050.020	2	MiniFrame 1, MiniFrame Plus (Convergent Technologies)		
1303			microSystem PC (Honeywell Information Systems)			Compatibility Matrix	227.0025.501	2
Specifications Chart	232.0045.019	2	Specifications Chart	228.0045.019	2	Hardware Product Brief	227.0050.505	2
1304			microSystem 6/10 (Honeywell Information Systems)			Miniterm 2100 Receive Only (Computer Devices)		
Specifications Chart	232.0045.020	2	Compatibility Matrix	228.0025.002	2	Specifications Chart	235.0045.010	2
1323			Hardware Product Brief	228.0050.020	2	Miniterm 2200 Series (Computer Devices)		
Specifications Chart	232.0045.020	2	Specifications Chart	228.0045.019	2	Specifications Chart	235.0045.010	2
1323A			microSystem 6/20 (Honeywell Information Systems)			MiniTower (NCR)		
Specifications Chart	232.0045.020	2	Hardware Product Brief	227.0050.021	2	Compatibility Matrix	227.0025.501	2
1324			microSystems 6/20 (Honeywell Information Systems)			Hardware Product Brief	227.0050.510	2
Specifications Chart	232.0045.020	2	Compatibility Matrix	227.0025.002	2	Specifications Chart	227.0045.050	2
1324A			Microtech Exports			MIP-512 (Matrox Electronic Systems)		
Specifications Chart	232.0045.020	2	ReformaTter	223.0035.008	2	Specifications Chart	234.0045.307	2
1325			MICROTOUCH			Miracle Computing		
Specifications Chart	232.0045.021	2	AMBER * TOUCH			EAZYGRAF	217.0035.019	1
1353A			Specifications Chart	236.0045.006	2	GRAFCALC	217.0035.020	1
Specifications Chart	232.0045.021	2	ENHANCED * TOUCH			Income	205.0035.010	1
1354			Specifications Chart	236.0045.006	2	Misosys		
Specifications Chart	232.0045.021	2	NTSC * TOUCH			DSMBLR II/III PRO-DUCE	224.0035.006	2
1354A			Specifications Chart	236.0045.007	2	PDS/PRO-PADS	223.0035.008	2
Specifications Chart	232.0045.021	2	RGB * TOUCH			ZGRAPH	217.0035.020	1
1355			Specifications Chart	236.0045.007	2	Mite (Mycroft Labs)	222.0035.011	2
Specifications Chart	232.0045.021	2	MicroVAX and PDP-11/73 1MB Memory Add-On (Digital Equipment)			Mitsubishi Electronics America		
1373			Specifications Chart	234.0045.005	2	AT1332A		
Specifications Chart	232.0045.021	2	MicroVAX I (Digital Equipment)			Specifications Chart	236.0045.007	2
1373A			Compatibility Matrix	227.0025.510	2	C3479		
Specifications Chart	232.0045.022	2	Hardware Product Brief	227.0050.506	2	Specifications Chart	236.0045.007	2
1374			Specifications Chart	227.0045.028	2	C3920		
Specifications Chart	232.0045.022	2	MicroVAX II (Digital Equipment)			Specifications Chart	236.0045.007	2
1374A			Compatibility Matrix	227.0025.510	2	C6479		
Specifications Chart	232.0045.022	2	Hardware Product Brief	227.0050.507	2	Specifications Chart	236.0045.008	2
1375			Specifications Chart	227.0045.028	2	C6920		
Specifications Chart	232.0045.022	2	Midwest Computer Center			Specifications Chart	236.0045.008	2
MicroPro International			Accounts Payable	200.0035.008	1	C9918		
CalcStar	207.0035.011	1	Accounts Receivable	201.0035.008	1	Specifications Chart	236.0045.008	2
ChartStar	217.0035.019	1	BOMP	219.0035.006	1	MF 351 Diskette Device		
Easy	218.0045.009	1	FINANCIAL ANALYSIS	207.0035.012	1	Specifications Chart	233.0045.009	2
InfoStar	221.0035.012	2	General Ledger	202.0035.010	1	MF 353 Diskette Device		
PlanStar	207.0035.011	1	Inventory	206.0035.010	1	Specifications Chart	233.0045.010	2
StarBurst	208.0035.005	1	Job Costing	204.0035.005	1	MF 353A Diskette Device		
SuperSort	223.0035.008	2	Payroll	203.0035.010	1	Specifications Chart	233.0045.009	2
WordStar	218.0035.018	1	Time Recording and Management System (TRAMS)	215.0035.022	1	M2894-63 Diskette Device		
WordStar Professional	218.0045.010	1				Specifications Chart	233.0045.009	2
WordStar 2000 Plus	218.0045.010	1				M2896-63 Diskette Device		
						Specifications Chart	233.0045.009	2

ALPHABETICAL LISTING

MMS CARGODOC (MARINE MANAGEMENT SYSTEMS)

MULTIPLAN (MICROSOFT)

Description	Report No.	Vol. No.	Description	Report No.	Vol. No.	Description	Report No.	Vol. No.
M4851 Diskette Device Specifications Chart	233.0045.009	2	Modular Graphics Card (Paradise Systems) Specifications Chart	234.0045.309	2	MPSI Microcobol	225.0035.011	2
M4852/3 Diskette Device Specifications Chart	233.0045.009	2	Modway Baseband LAN (Gould) Specifications Chart	238.0045.007	2	MR2PS (Bernard Giffler Associates)	219.0035.001	1
M4854 Diskette Device Specifications Chart	233.0045.009	2	Modway Broadband LAN (Gould) Specifications Chart	238.0045.203	2	MRP II (Manufacturing Resource Planning II) (Compumax)	219.0035.002	1
M4855 Diskette Device Specifications Chart	233.0045.009	2	Molecular Computer Durango Poppy 186 Specifications Chart	227.0045.047	2	MRPII Financial System (DBSI Information Systems)	219.0035.002	1
XC-1412C Specifications Chart	236.0045.008	2	Durango Poppy 286/186 Specifications Chart	227.0045.047	2	MS 2000 (Monroe Systems) Specifications Chart	227.0045.048	2
XC1404C Specifications Chart	236.0045.008	2	Money Decisions Volume 1 and 2 (Eagle Software Publishing)	214.0035.004	1	MS-DOS 1.25 (Microsoft)	220.0035.005	2
6679 Specifications Chart	236.0045.007	2	Money Market Trading System (Spot Systems)	214.0035.015	1	MS-DOS 2.0 (Microsoft)	220.0035.005	2
MMS CARGODOC (Marine Management Systems)	215.0035.018	1	Monitor II (Apple Computer) Specifications Chart	236.0045.002	2	MSC 8801-07 (Monolithic Systems) Specifications Chart	228.0045.027	2
MMSFORTH (Miller Microcomputer Services)	225.0035.011	2	Monitor IIc (Apple Computer) Specifications Chart	236.0045.002	2	MSC 8802-16 (Monolithic Systems) Specifications Chart	228.0045.027	2
Modal Analysis and Data Management (MADAM) (Anatrol)	216.0035.002	1	Monitors (see reports beginning with 236)			MSI-241 (Qua Tech) Specifications Chart	234.0045.118	2
Model 100 (Tandy (Radio Shack)) Specifications Chart	229.0045.014	2	Company Directory			MSP-10/MSP-15 (Citizen America) Specifications Chart	235.0045.009	2
Model 2200 (Universal Data Research) Specifications Chart	227.0045.074	2	Market Analysis			MSP-20/MSP-25 (Citizen America) Specifications Chart	235.0045.009	2
Model 240 PC Scanner (Caere) Specifications Chart	234.0045.105	2	Specifications Chart			MSR Series (Macrotech International) Specifications Chart	234.0045.010	2
Model 2400 (Universal Data Research) Specifications Chart	227.0045.075	2	Specifications Chart Guide			MS212 (Micro Storage) Specifications Chart	232.0045.019	2
Model 455 (AT&T Information Systems) Specifications Chart	235.0045.003	2	Mono Combo (Emulex) Specifications Chart	234.0045.203	2	MT 180 (Mannesmann Tally) Specifications Chart	235.0045.034	2
Model 457 (AT&T Information Systems) Specifications Chart	235.0045.003	2	Mono Plus II (STB Systems) Specifications Chart	234.0045.312	2	MT 290 (Mannesmann Tally) Specifications Chart	235.0045.034	2
Model 458 (AT&T Information Systems) Specifications Chart	235.0045.003	2	Monochrome Display and Printer Adapter (#4900) (IBM) Specifications Chart	234.0045.307	2	MT 420/440 (Mannesmann Tally) Specifications Chart	235.0045.035	2
Model 470/471 (AT&T Information Systems) Specifications Chart	235.0045.003	2	MonoGraphPlus (AST Research) Specifications Chart	234.0045.302	2	MT 460 (Mannesmann Tally) Specifications Chart	235.0045.035	2
Model 473/474 (AT&T Information Systems) Specifications Chart	235.0045.004	2	Monolithic Systems			MT 490 (Mannesmann Tally) Specifications Chart	235.0045.035	2
Model 475/476 (AT&T Information Systems) Specifications Chart	235.0045.004	2	MSC 8801-07 Specifications Chart	228.0045.027	2	MT 660 (Mannesmann Tally) Specifications Chart	235.0045.035	2
Model 478/479 (AT&T Information Systems) Specifications Chart	235.0045.004	2	MSC 8802-16 Specifications Chart	228.0045.027	2	MT 85/86 (Mannesmann Tally) Specifications Chart	235.0045.035	2
Model 503 (Northern Telecom) Compatibility Matrix	228.0025.003	2	Monroe Systems			MTech Micro Services		
Hardware Product Brief	228.0050.033	2	MS 2000	227.0045.048	2	MTech Asset/Liability Management System	214.0035.010	1
Specifications Chart	228.0045.031	2	The 3270 SNA/SDLC	222.0035.011	2	MTERM (Micro Systems Software)	222.0035.010	2
Model 520 (NNC Electronics) Specifications Chart	227.0045.052	2	Morrow			MTX Series (Memotech Ltd) Compatibility Matrix	228.0025.003	2
Model 540 (NNC Electronics) Specifications Chart	227.0045.053	2	Micro Decision MD11	228.0025.003	2	Hardware Product Brief	228.0050.027	2
Model 7500 (Perkin-Elmer) Compatibility Matrix	227.0025.003	2	Compatibility Matrix	228.0050.028	2	Multi I/O (AST Research) Specifications Chart	234.0045.103	2
Hardware Product Brief	227.0050.030	2	Morrow MD5-E	228.0025.003	2	Multi-Currency General Ledger (Nissim Associates)	202.0035.010	1
Model 800 DP (Texas Instruments) Specifications Chart	235.0045.515	2	Hardware Product Brief	228.0050.505	2	Multi-Disk Catalog III (Sensible Software)	223.0035.010	2
Model 820 (NNC Electronics) Specifications Chart	227.0045.053	2	Pivot	229.0025.002	2	Multi-Display Card (Paradise Systems) Specifications Chart	234.0045.309	2
Model 840 (NNC Electronics) Specifications Chart	227.0045.053	2	Hardware Product Brief	229.0050.016	2	Multi-lingual Word Processor (The Professor)	218.0045.019	1
Model 880 (Texas Instruments) Specifications Chart	235.0045.515	2	Tricep	227.0025.003	2	Multi-Soft	221.0035.013	2
Model 880 AT (Texas Instruments) Specifications Chart	235.0045.515	2	Compatibility Matrix	227.0050.026	2	Multi-Trieve		
Model 910 (Printek) Specifications Chart	235.0045.507	2	Hardware Product Brief	227.0050.026	2	Multi-Tech Systems		
Model 920 (Printek) Specifications Chart	235.0045.507	2	Morrow Designs			MODEM II Long-Haul Modem	237.0045.008	2
Model 930 (Printek) Specifications Chart	235.0045.507	2	Pivot 2	229.0045.009	2	Specifications Chart	237.0045.008	2
Model 930 dix (Printek) Specifications Chart	235.0045.507	2	Specifications Chart	229.0045.009	2	MT103J Long-Haul Modem	237.0045.008	2
Model 930/dd (Printek) Specifications Chart	235.0045.508	2	Morrow MD5-E (Morrow) Hardware Product Brief	228.0050.505	2	Specifications Chart	237.0045.008	2
Model 935 (Printek) Specifications Chart	235.0045.508	2	Mosaic Software			MT113D Long-Haul Modem	237.0045.009	2
Models 3000, OSP-130 (Florida Data) Specifications Chart	235.0045.024	2	Integrated-6	208.0035.006	1	Specifications Chart	237.0045.009	2
Models 6000, 6000T (Dynabyte) Compatibility Matrix	227.0025.002	2	SOFTPLOT/BGL	217.0035.020	1	Multi-Modem	234.0045.116	2
Hardware Product Brief	227.0050.019	2	Motorola			Specifications Chart	234.0045.116	2
Modems (see reports beginning with 237)			VMC 68/2	227.0025.003	2	Multi-Modem PC	234.0045.116	2
Modula II (Datamed Research)	225.0035.003	2	Compatibility Matrix	227.0050.026	2	Specifications Chart	234.0045.116	2
Modula-2 (Volition Systems)	225.0035.016	2	Hardware Product Brief	227.0050.026	2	Multi-Tool Budget (Microsoft)	207.0035.012	1
			Motorola Four-Phase Systems			Multicomponent Distillation (Kelix Software Systems)	216.0035.027	1
			Series 2000, Model 240	227.0045.048	2	Multicore (Quadram) Specifications Chart	234.0045.206	2
			Specifications Chart	227.0045.048	2	MultiDOS (AlphaBit Communications)	220.0035.001	2
			Series 2000, Model 260	227.0045.048	2	MultiFORTH (Creative Solutions)	224.0035.003	2
			Specifications Chart	227.0045.049	2	Multigraph II (Profit Systems) Specifications Chart	234.0045.310	2
			Series 6000, System 6300	227.0045.049	2	MultiMate (Softword Systems)	218.0035.029	1
			Specifications Chart	227.0045.049	2	MultiMate International		
			Series 6000, System 6600	227.0045.049	2	Advantage Professional Word Processor	218.0045.011	1
			Specifications Chart	227.0045.049	2	Executive Word Processor	218.0045.011	1
			Motorola Semiconductor Products			JustWrite	218.0045.012	1
			VME/10	227.0045.049	2	MultiMate Professional 3.3	218.0045.012	1
			Specifications Chart	227.0045.049	2	3.3 Series LAN Version	218.0045.012	1
			Mousewrite (Roger Wagner Publishing)	218.0045.020	1	Multiplan (Microsoft)	207.0035.012	1
			Movie Maker (Interactive Picture Systems)	217.0035.015	1			
			MP Mini (AST Research) Specifications Chart	234.0045.001	2			
			MP/M-86 (Digital Research)	220.0035.003	2			
			MPAC (McCullough & Associates)	219.0035.006	1			
			MPS Company					
			Earthwork, Coordinate Geometry and Ditch Hydraulics	216.0035.033	1			

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MULTIPLE PROTOCOL COMMUNICATIONS CONTROLLER (EMULEX)

NNC ELECTRONICS

Description	Report No.	Vol. No.	Description	Report No.	Vol. No.	Description	Report No.	Vol. No.
Multiple Protocol Communications Controller (Emulex)			N2 Market Illustrator	214.0035.011	1	N113C/DR Long-Haul Modem		
Specifications Chart	234.0045.109	2	N2 Stock Analyzer	214.0035.011	1	Specifications Chart	237.0045.009	2
Multiple Protocol Communications Controller (Persyst)			NAD Name and Address (Structured Systems Group (SSG))	218.0035.030	1	PC-8801		
Specifications Chart	234.0045.109	2	National Cash Register (see NCR)			Specifications Chart	228.0045.029	2
MultiStar (IBC/Integrated Business Computers)			Natural Microsystems			Pinwriter CP2, CP3	235.0045.501	2
Specifications Chart	227.0045.036	2	Watson			Specifications Chart	235.0045.501	2
Multiuser Microcomputers			Specifications Chart	234.0045.116	2	Pinwriter P2, P3	235.0045.501	2
(see reports beginning with 227)			NBI			Pinwriter P5 Series	235.0045.501	2
Company Directory			NBI Word Processor	218.0035.019	1	Specifications Chart	235.0045.501	2
Specifications Chart Guide			UI Technical WorkStation			Spinwriter 300 Series	235.0045.501	2
Multivision 1 Model 8-5 (Applied Digital Data Systems)			Compatibility Matrix	228.0025.003	2	Spinwriter 3500 Series	235.0045.501	2
Compatibility Matrix	227.0025.001	2	Hardware Product Brief	228.0050.505	2	Specifications Chart	235.0045.501	2
Hardware Product Brief	227.0050.005	2	NBI Word Processor (NBI)	218.0035.019	1	Spinwriter 8800 Series	235.0045.501	2
Multivision 2 Model 8-5 (Applied Digital Data Systems)			NCR			Specifications Chart	235.0045.501	2
Compatibility Matrix	227.0025.001	2	Decision Mate V	228.0025.003	2	Nelma Data		
Hardware Product Brief	227.0050.005	2	Compatibility Matrix	228.0050.029	2	Persona		
Multivision 3 Model 8-5 (Applied Digital Data Systems)			Specifications Chart	228.0045.027	2	Specifications Chart	228.0045.030	2
Compatibility Matrix	227.0025.001	2	I-Tower	227.0025.003	2	Persona 16		
Hardware Product Brief	227.0050.005	2	Compatibility Matrix	227.0050.027	2	Specifications Chart	228.0045.030	2
Multivision 3 Model 8-5 (Applied Digital Data Systems)			Hardware Product Brief	227.0045.050	2	The PERSONA		
Compatibility Matrix	227.0025.001	2	Specifications Chart	227.0045.050	2	Compatibility Matrix	228.0025.003	2
Hardware Product Brief	227.0050.006	2	MiniTOWER			Hardware Product Brief	228.0050.031	2
Municipal System (AF Software Services)	215.0035.001	1	Compatibility Matrix	227.0025.501	2	The PERSONA 16		
Muse Software			Hardware Product Brief	227.0050.510	2	Compatibility Matrix	228.0025.003	2
Super-Text Home Office	218.0035.018	1	Specifications Chart	227.0045.050	2	Hardware Product Brief	228.0050.032	2
Super-Text Professional	218.0035.019	1	NCR Personal Computer Model 4			Neoteric Computer Systems		
MW 26 (Comark)			Compatibility Matrix	228.0025.003	2	Manufacturing Inventory-MRP	219.0035.007	1
Specifications Chart	232.0045.006	2	Hardware Product Brief	228.0050.030	2	Neptune 64K card (Titan Technologies)		
MW 52 (Comark)			Specifications Chart	228.0045.028	2	Specifications Chart	234.0045.210	2
Specifications Chart	232.0045.006	2	NCR/32-796A-16			Nestar Systems		
Mycroft Labs			Specifications Chart	234.0045.011	2	File Transfer Server (FTS)	222.0035.011	2
COMPAT	223.0035.008	2	PC6			PLAN Series Baseband LAN		
Mite	222.0035.011	2	Specifications Chart	228.0045.028	2	Specifications Chart	238.0045.010	2
M18DT PC (Docutel/Olivetti)			PC8			Net 10 (VIASYN)		
Specifications Chart	228.0045.012	2	Compatibility Matrix	227.0025.501	2	Specifications Chart	234.0045.125	2
M21 (Docutel/Olivetti)			Hardware Product Brief	227.0050.511	2	Net 100 (VIASYN)		
Compatibility Matrix	229.0025.002	2	Specifications Chart	227.0045.050	2	Specifications Chart	234.0045.125	2
Hardware Product Brief	229.0050.016	2	TOWER SP			Net 101 (VIASYN)		
M222X Series (Fujitsu Systems of America)			Specifications Chart	227.0045.051	2	Specifications Chart	234.0045.125	2
Specifications Chart	232.0045.013	2	TOWER XP			Net 11 (VIASYN)		
M223X Series (Fujitsu Systems of America)			Compatibility Matrix	227.0025.501	2	Specifications Chart	234.0045.125	2
Specifications Chart	232.0045.013	2	Hardware Product Brief	227.0050.511	2	Net/One Baseband LAN (Ungermann-Bass)		
M224X Series (Fujitsu Systems of America)			Tower 1632			Specifications Chart	238.0045.017	2
Specifications Chart	232.0045.013	2	Compatibility Matrix	227.0025.003	2	Net/One Broadband LAN (Ungermann-Bass)		
M2246E (Fujitsu Systems of America)			Hardware Product Brief	227.0050.027	2	Specifications Chart	238.0045.206	2
Specifications Chart	232.0045.013	2	Specifications Chart	227.0045.051	2	Netware/E Baseband LAN (Novell)		
M23 Series (SORD Computer of America)			WorkSaver 300			Specifications Chart	238.0045.011	2
Compatibility Matrix	228.0025.004	2	Compatibility Matrix	228.0025.003	2	Netware/O Baseband LAN (Novell)		
Hardware Product Brief	228.0050.041	2	Hardware Product Brief	228.0050.506	2	Specifications Chart	238.0045.012	2
M24 (Docutel/Olivetti)			Specifications Chart	228.0045.028	2	Netware/S Baseband LAN (Novell)		
Compatibility Matrix	228.0025.002	2	NCR/32-796A-16 (NCR)			Specifications Chart	238.0045.012	2
Specifications Chart	228.0045.013	2	Specifications Chart	234.0045.011	2	Netware/X Baseband LAN (Novell)		
M2894-63 Diskette Device (Mitsubishi Electronics America)			Neal Nelson & Associates			Specifications Chart	238.0045.012	2
Specifications Chart	233.0045.009	2	Accounting Software Series	205.0035.010	1	Network revelation (Cosmos)		
M2896-63 Diskette Device (Mitsubishi Electronics America)			NEC Home Electronics			Network Systems		
Specifications Chart	233.0045.009	2	JB-1201			Hyberbus Baseband LAN		
M3000 (MicroStandard Technologies)			Specifications Chart	236.0045.008	2	Specifications Chart	238.0045.011	2
Compatibility Matrix	229.0025.002	2	JB-1205M			Hyperchannel Baseband LAN		
Hardware Product Brief	229.0050.015	2	Specifications Chart	236.0045.009	2	Specifications Chart	238.0045.011	2
M304x (Fujitsu Systems of America)			JB-1260M			Nevada COBOL (Ellis Computing)	225.0035.006	2
Specifications Chart	235.0045.024	2	Specifications Chart	236.0045.009	2	Nevada FORTRAN (Ellis Computing)	225.0035.006	2
M4851 Diskette Device (Mitsubishi Electronics America)			JB-1280DA			Nevada GOBOL (Ellis Computing)	225.0035.006	2
Specifications Chart	233.0045.009	2	Specifications Chart	236.0045.009	2	New Generation Systems		
M4852/3 Diskette Device (Mitsubishi Electronics America)			JB-1285DA			MicroShell	223.0035.009	2
Specifications Chart	233.0045.009	2	Specifications Chart	236.0045.009	2	Next Step (Execuware)	224.0035.003	2
M4854 Diskette Device (Mitsubishi Electronics America)			JC-1216DF			Nibbles Away II (Computer Applications)		
Specifications Chart	233.0045.009	2	Specifications Chart	236.0045.009	2	223.0035.002		
M4855 Diskette Device (Mitsubishi Electronics America)			JC-1225MA			NICE (XYZT Computer Dimensions)	208.0035.010	1
Specifications Chart	233.0045.009	2	Specifications Chart	236.0045.010	2	NICOLET/85 (Tensegrity)	216.0035.041	1
M68 System (SORD Computer of America)			JC-1270MA			Nimbus (Media Cybermetrics)	217.0035.017	1
Compatibility Matrix	228.0025.004	2	Specifications Chart	236.0045.010	2	Nissim Associates		
Hardware Product Brief	228.0050.041	2	JC-1275MA			Multi-Currency General Ledger	202.0035.010	1
N-Squared Computing			Specifications Chart	236.0045.010	2	Nixdorf Computer AG		
N2 Market Analyzer	214.0035.010	1	PC 8201A			8810/30		
			Specifications Chart	229.0045.009	2	Compatibility Matrix	228.0025.003	2
			PC 8401A-LS			Hardware Product Brief	228.0050.032	2
			Specifications Chart	229.0045.010	2	8810/65 SPC		
			NEC Information Systems			Specifications Chart	228.0045.030	2
			Advanced Personal Computer (APC III)			8870 Micro 7		
			Specifications Chart	228.0045.029	2	Specifications Chart	227.0045.051	2
			Advanced Personal Computer (APC)			NNC Electronics		
			Specifications Chart	228.0045.029	2	M/20		
			Advanced Personal Computer III			Specifications Chart	227.0045.052	2
			Compatibility Matrix	228.0025.003	2	M/40		
			Hardware Product Brief	228.0050.031	2	Specifications Chart	227.0045.052	2
			N103JR Long-Haul Modem			Model 520		
			Specifications Chart	237.0045.009	2	Specifications Chart	227.0045.052	2

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NOHALT COMPUTERS

ORANGE MICRO

Description	Report No.	Vol. No.	Description	Report No.	Vol. No.	Description	Report No.	Vol. No.
Model 540			OA-D33V Diskette Device (Sony)			OmniDrive Model 20 (Corvus Systems)		
Specifications Chart	227.0045.053	2	Specifications Chart	233.0045.011	2	Specifications Chart	232.0045.008	2
Model 820			OASIS BASIC (ONYX Systems)	225.0035.011	2	OmniDrive Model 45 (Corvus Systems)		
Specifications Chart	227.0045.053	2	Oasis Systems			Specifications Chart	232.0045.008	2
Model 840			Word Plus	218.0035.020	1	OmniDrive Model 5 (Corvus Systems)		
Specifications Chart	227.0045.053	2	Oasis Technologies			Specifications Chart	232.0045.008	2
NoHALT Computers			Oasis8	220.0035.005	2	OMNIFILE (S.S.R.)	221.0035.017	2
RELIANT			Oasis86	220.0035.006	2	OMNIFILE File Transfer Advanced Function (On-Line Software)	222.0035.012	2
Specifications Chart	227.0045.054	2	Oasis86 (Oasis Technologies)	220.0035.006	2	OMNIFILE File Transfer Entry Level (On-Line Software)	222.0035.012	2
Norcom			OBS Software			OmniBase LAN (Corvus Systems)		
DP-80			WYLBUR/pc	224.0035.006	2	Specifications Chart	238.0045.004	2
Specifications Chart	235.0045.502	2	OCC Client Write-up (Occupational Computing Company)	215.0035.022	1	OMNILOT (Microcomputables)	217.0035.018	1
Norell Data Systems			OCC-General Ledger (Occupational Computing Company)	202.0035.010	1	Omnic Data		
Easyproof Spelling Checker	218.0035.019	1	OCC-Payroll (Occupational Computing Company)	203.0035.011	1	4500 Long-Haul Modem		
Easytext	218.0035.020	1	Occupational Computing Company			Specifications Chart	237.0045.010	2
System-Backup	223.0035.009	2	OCC Client Write-up	215.0035.022	1	4700 Long-Haul Modem		
North America MICA			OCC-General Ledger	202.0035.010	1	Specifications Chart	237.0045.010	2
PMS-II	204.0035.005	1	OCC-Payroll	203.0035.011	1	4900 Long-Haul Modem		
North American Business Systems			OEMTEK			Specifications Chart	237.0045.010	2
Memory/Shift	208.0035.007	1	8200 Series			OmniTerm (Linbergh Systems)	222.0035.009	2
North Atlantic Quantex			Specifications Chart	229.0045.010	2	OmniWriter (Aton International)	218.0035.003	1
7035 Tempest			9200 Series			Omnix (Computer Automation)		
Specifications Chart	235.0045.502	2	Specifications Chart	229.0045.010	2	Compatibility Matrix	227.0025.001	2
7075			Office Solutions			Hardware Product Brief	227.0050.015	2
Specifications Chart	235.0045.502	2	Office Writer 3.5	218.0045.013	1	On-Line Instrument Systems		
7085			OFFIX (Emerging Technology Consultants)	208.0035.003	1	OLIS 3820 "SPECTRO"	216.0035.033	1
Specifications Chart	235.0045.502	2	Ohio Data Base			On-Line Software		
North Star Computers			Alpha-Vue	218.0035.020	1	OMNIFILE File Transfer Advanced Function	222.0035.012	2
ADVANTAGE			Country Club Accounting	215.0035.022	1	OMNIFILE File Transfer Entry Level	222.0035.012	2
Compatibility Matrix	228.0025.003	2	Okidata			ONYX Systems		
Hardware Product Brief	228.0050.033	2	GM 3305H Diskette Device			OASIS BASIC	225.0035.011	2
DIMENSION			Specifications Chart	233.0045.010	2	Onyx 186 Series		
Compatibility Matrix	227.0025.501	2	GM 3315B Diskette Device			Compatibility Matrix	227.0025.003	2
Hardware Product Brief	227.0050.512	2	Specifications Chart	233.0045.010	2	Hardware Product Brief	227.0050.028	2
Specifications Chart	227.0045.054	2	Microline 182/182 TTY/183			Onyx 5010 OASIS Business Systems		
Horizon			Specifications Chart	235.0045.502	2	Specifications Chart	227.0045.056	2
Compatibility Matrix	227.0025.003	2	Microline 192			Onyx 5012 Series		
Hardware Product Brief	227.0050.028	2	Specifications Chart	235.0045.502	2	Specifications Chart	227.0045.056	2
HORIZON 8/16			Microline 193			Onyx 6001 Series		
Specifications Chart	227.0045.054	2	Specifications Chart	235.0045.503	2	Specifications Chart	227.0045.056	2
Northern Telecom			Okidata 120			Onyx 6810 Series Business Computers		
Meridian DV-1			Specifications Chart	235.0045.503	2	Specifications Chart	227.0045.057	2
Specifications Chart	227.0045.055	2	Okimate 10			The ONYX Office	208.0035.007	1
Model 503			Specifications Chart	235.0045.503	2	Onyx 186 Series (ONYX Systems)		
Compatibility Matrix	228.0025.003	2	Okimate 20			Compatibility Matrix	227.0025.003	2
Hardware Product Brief	228.0050.033	2	Specifications Chart	235.0045.503	2	Hardware Product Brief	227.0050.028	2
Specifications Chart	228.0045.031	2	Pacemark 2410			Open Access (Software Products International)		
503 Microcomputer			Specifications Chart	235.0045.503	2	Open Item Accounts (International Micro Systems (IMS))	201.0035.006	1
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565			Specifications Chart	235.0045.503	2	Accounts Payable	200.0035.008	1
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585			Specifications Chart	235.0045.503	2	General Ledger	202.0035.011	1
Specifications Chart	227.0045.055	2	Okidata 120 (Okidata)			Inventory System	206.0035.011	1
Peter Norton			Specifications Chart	235.0045.503	2	Payroll	203.0035.011	1
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D-Cat Long-Haul Modem			Specifications Chart	235.0045.503	2	(see reports beginning with 220)		
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J-Cat Long-Haul Modem			Specifications Chart	235.0045.504	2	OptionCalc (Savant)	225.0035.002	2
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103 Smart-Cat Long-Haul Modem			Compact NP			OR-D Systems		
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Netware/E Baseband LAN			Specifications Chart	235.0045.504	2	Medical Management System	215.0035.023	1
Specifications Chart	238.0045.011	2	ESW 3000			ORACLE		
Netware/O Baseband LAN			Specifications Chart	235.0045.504	2	ORACLE Version3	221.0035.013	2
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Netware/S Baseband LAN			Compatibility Matrix	228.0025.003	2	Specifications Chart	234.0045.309	2
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Netware/X Baseband LAN			Specifications Chart	228.0045.031	2	Buffered Grappler+		
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NPL Information Management System (Desktop Software)			Locksmith	223.0035.009	2	Bufferpak		
NTSC TOUCH (MICROTOUCH)			Omicron Software			Specifications Chart	234.0045.308	2
Specifications Chart	236.0045.007	2	PLOTTRAX	217.0035.021	1	Grappler C		
Nu Data			OMNI Computer (Digital Computer)			Specifications Chart	234.0045.308	2
T26 Long-Haul Modem			Compatibility Matrix	227.0025.002	2	Grappler CD		
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108 D/E Long-Haul Modem			OmniDrive Model 11 (Corvus Systems)			Grappler+		
Specifications Chart	237.0045.010	2	Specifications Chart	232.0045.008	2	Specifications Chart	234.0045.308	2
Number Cruncher II (Pyramid Data Ltd)			OmniDrive Model 16 (Corvus Systems)			HotLink		
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OA 3200 (Compucorp)						Orange Interface		
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Specifications Chart	234.0045.309	2	p-System (Softech Microsystems)	220.0035.007	2	Specifications Chart	233.0045.010	2
ORCA/M (Hayden Software)	224.0035.004	2	P/15 (Plexus Computers)			JU-363 Diskette Device		
Orchid Technology			Compatibility Matrix	227.0025.502	2	Specifications Chart	233.0045.010	2
Blossom			Hardware Product Brief	227.0050.513	2	JU-455 Diskette Device		
Specifications Chart	234.0045.205	2	Specifications Chart	227.0045.060	2	Specifications Chart	233.0045.010	2
Conquest			P/20 (Plexus Computers)			JU-475 Diskette Device		
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CramRAM			Hardware Product Brief	227.0050.513	2	KN-P1091		
Specifications Chart	234.0045.205	2	P/25 (Plexus Computers)			Specifications Chart	235.0045.505	2
ECCELL			Compatibility Matrix	227.0025.003	2	KX-P1080		
Specifications Chart	234.0045.205	2	Hardware Product Brief	227.0050.032	2	Specifications Chart	235.0045.504	2
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Specifications Chart	234.0045.116	2	Compatibility Matrix	227.0025.003	2	Specifications Chart	235.0045.505	2
PCnet Baseband LAN			Hardware Product Brief	227.0050.032	2	Specifications Chart	235.0045.505	2
Specifications Chart	238.0045.013	2	Specifications Chart	227.0045.060	2	KX-P1592		
PCnet Blossom			P/40 (Plexus Computers)			Specifications Chart	235.0045.505	2
Specifications Chart	234.0045.117	2	Compatibility Matrix	227.0025.003	2	KX-P1595		
PCturbo186 Processor Card			Hardware Product Brief	227.0050.033	2	Specifications Chart	235.0045.505	2
Specifications Chart	234.0045.011	2	P/60 (Plexus Computers)			KX-P3131		
Turbo Graphics Controller			Compatibility Matrix	227.0025.003	2	Specifications Chart	235.0045.505	2
Specifications Chart	234.0045.309	2	Hardware Product Brief	227.0050.033	2	KX-P3151		
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Order Entry (Information Unlimited Software (IUS))	206.0035.008	1	Hardware Product Brief	227.0050.080	2	Compatibility Matrix	229.0025.002	2
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Order Entry and Inventory Management (American Business Systems)	206.0035.011	1	PACE (Prompt Accurate Cost Estimating) (High Technology Software Products)	219.0035.004	1	Specifications Chart	229.0045.012	2
Organizer II (Information People)	224.0035.005	2	Pacemaker Follow-up System (Trinity Computing Systems)	215.0035.030	1	Senior Partner RL-H7100		
Orthodontic (CYMA)	215.0035.011	1	Pacemark 2410 (Okidata)			Specifications Chart	229.0045.012	2
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Osborne Computer			Pacific Microcomputers			Compatibility Matrix	229.0025.002	2
Executive			PM200			Hardware Product Brief	229.0050.018	2
Compatibility Matrix	229.0025.002	2	Specifications Chart	227.0045.058	2	TR-122M9P/TR-122MYP		
Hardware Product Brief	229.0050.017	2	Packed Column Analysis (Kelix Software Systems)	216.0035.030	1	Specifications Chart	236.0045.011	2
Osborne Vixen			Pacsoft			TR120MDPA/TR120M1PA		
Compatibility Matrix	229.0025.002	2	Contour Mapping	216.0035.033	1	Specifications Chart	236.0045.011	2
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Osborne 3			Profiles & Cross Sections	216.0035.034	1	Specifications Chart	236.0045.011	2
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Vixen			PACXNET Baseband LAN (Gandalf Data)			Specifications Chart	234.0045.309	2
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OSI 720 (Isotron)			VISIWORD PLUS	218.0045.013	1	Analysis and Design of Digital Filters and Discrete-Time Systems	216.0035.035	1
Compatibility Matrix	227.0025.501	2	Palantir Software			Linear System Analysis and Feedback Compensator Design	216.0035.035	1
Hardware Product Brief	227.0050.509	2	Palantir Word Processor	218.0035.021	1	Partner (RC Computer)		
OSI-345 (Isotron)			The Word Processor	218.0045.013	1	Compatibility Matrix	228.0025.003	2
Specifications Chart	227.0045.043	2	Palantir Word Processor (Palantir Software)	218.0035.021	1	Hardware Product Brief	228.0050.035	2
OSI-710 (Isotron)			Palette Master (Quadram)			Partyline Baseband LAN (Standard Engineering)		
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OSLO-85 (Sinclair Optics)	216.0035.038	1	PalSoftware			Pascal Interactive Terminal Software (PITS) (Software Sorcery)	220.0035.017	2
OSM Computer			ARTPAK Presentation System	217.0035.021	1		222.0035.016	2
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Specifications Chart	228.0045.032	2	BT-P4500D			Payroll (Compact Software International)	203.0035.002	1
Zeus 3X			Specifications Chart	236.0045.010	2	Payroll (Construction Data Control)	203.0035.004	1
Specifications Chart	227.0045.037	2	DT-D1000G			Payroll (Designers & Builders of Information Systems (DBIS))	203.0035.006	1
Zeus 3X, Zeus 3X/16			Specifications Chart	236.0045.010	2	Payroll (Groundstar Software)	203.0035.006	1
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Zeus 4			DT-H103			Payroll (INFO Designs)	203.0035.008	1
Specifications Chart	227.0045.037	2	Specifications Chart	236.0045.011	2	Payroll (International Micro Systems (IMS))	203.0035.009	1
Zeus 4, Zeus 4/16			DT-M140			Payroll (Micro Data)	203.0035.010	1
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			Specifications Chart	235.0045.504	2	Payroll (Structured Systems Group (SSG))	203.0035.014	1
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PAYROLL/PERSONNEL

PERT CHARTS

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PA100 Turbo (Avatar Technologies) Specifications Chart	234.0045.104	2	PC-Touch (Lanier Business Products) Specifications Chart	234.0045.115	2	Compatibility Matrix	227.0025.003	2
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PC Modem 1200 (Ven-Tel) Specifications Chart	234.0045.124	2	Hardware Product Brief	229.0050.021	2	Compatibility Matrix	227.0025.501	2
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PC Paintbrush (Imsi Software Publishers)	217.0035.014	1	PC-8801 (NEC Information Systems) Specifications Chart	228.0045.029	2	Persoft SmarTerm 100	222.0035.012	2
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PC Video Board (VIASYN) Specifications Chart	234.0045.313	2	PC/Memory Plus Clock (Persyst) Specifications Chart	234.0045.007	2	Persona 16 (Nelma Data) Specifications Chart	228.0045.030	2
PC 102 (General Micro Systems)	222.0035.004	2	PC/Short Memory (Emulex) Specifications Chart	234.0045.007	2	Personal Best (Corona Data Systems) Compatibility Matrix	228.0025.001	2
PC 16 (Siemens AG) Compatibility Matrix	228.0025.003	2	PC/Short Memory (Persyst) Specifications Chart	234.0045.007	2	Hardware Product Brief	228.0050.010	2
Hardware Product Brief	228.0050.039	2	PC/88 (Computer Systems) Specifications Chart	227.0045.016	2	Personal Color FXD (Leading Edge Products) Specifications Chart	228.0045.024	2
PC 6300 (AT&T Information Systems) Specifications Chart	228.0045.002	2	PCjr (IBM) Compatibility Matrix	228.0025.002	2	Personal Composition System (Compugraphic)	215.0035.008	1
PC 8201A (NEC Home Electronics) Specifications Chart	229.0045.009	2	Hardware Product Brief	228.0050.022	2	Personal Computer (IBM) Compatibility Matrix	228.0025.002	2
PC 8401A-LS (NEC Home Electronics) Specifications Chart	229.0045.010	2	Specifications Chart	228.0045.020	2	Hardware Product Brief	228.0050.022	2
PC-DISC/140 (Alloy Computer Products) Specifications Chart	232.0045.001	2	PCnet (Orchid Technology) Specifications Chart	234.0045.116	2	Specifications Chart	228.0045.022	2
PC-DISC/36 (Alloy Computer Products) Specifications Chart	232.0045.002	2	PCnet Baseband LAN (Orchid Technology) Specifications Chart	238.0045.013	2	Personal Computer (Leading Edge Products) Specifications Chart	228.0045.024	2
PC-DISC/52 (Alloy Computer Products) Specifications Chart	232.0045.002	2	PCnet Blossom (Orchid Technology) Specifications Chart	234.0045.117	2	Personal Computer AT (IBM) Specifications Chart	227.0045.036	2
PC-DISC/85 (Alloy Computer Products) Specifications Chart	232.0045.002	2	PCturbo186 Processor Card (Orchid Technology) Specifications Chart	234.0045.011	2	Personal Computer AT/370 (IBM) Specifications Chart	227.0045.037	2
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PC-QICSTOR/140 (Alloy Computer Products) Specifications Chart	232.0045.002	2	Specifications Chart	227.0045.050	2	Personal Computer System (Leading Edge Products) Compatibility Matrix	228.0025.002	2
PC-QICSTOR/170 (Alloy Computer Products) Specifications Chart	232.0045.003	2	PDP-11/23-PLUS (Digital Equipment) Compatibility Matrix	227.0025.002	2	Hardware Product Brief	228.0050.504	2
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PC-QICSTOR/52 (Alloy Computer Products) Specifications Chart	232.0045.002	2	PDS/PRO-PADS (Misosys)	223.0035.008	2	Hardware Product Brief	228.0050.023	2
PC-QICSTOR/72 (Alloy Computer Products) Specifications Chart	232.0045.002	2	PeachCalc (Peachtree Software)	207.0035.013	1	Specifications Chart	228.0045.021	2
PC-QICSTOR/85 (Alloy Computer Products) Specifications Chart	232.0045.003	2	PeachTax Service (Peachtree Software)	203.0035.012	1	Personal Computer XT/370 (IBM) Compatibility Matrix	228.0025.002	2
PC-STOR/104 (Alloy Computer Products) Specifications Chart	232.0045.002	2	PeachText (Peachtree Software)	218.0035.021	1	Hardware Product Brief	228.0050.023	2
PC-STOR/170 (Alloy Computer Products) Specifications Chart	232.0045.003	2	PeachText 5000 (Peachtree Software)	208.0035.008	1	Specifications Chart	228.0045.021	2
PC-STOR/36 (Alloy Computer Products) Specifications Chart	232.0045.003	2	Peachtree Software Business Accounting Fixed Assets	202.0035.011	1	Personal Data Base (Supersoft)	221.0035.018	2
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PC-STOR/85 (Alloy Computer Products) Specifications Chart	232.0045.003	2	Business Accounting Payroll	203.0035.011	1	FDD-421 Diskette Device		
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PC-8801 (NEC Information Systems) Specifications Chart			PeachText	218.0035.021	1	Personal PEARL (Pearlsoft)	221.0035.013	2
PC/FOCUS (Information Builders)			PeachText Word Processor	218.0045.014	1	Personal Services/PC (IBM)	222.0035.007	2
PC/FORTH (Laboratory Microsystems)			PeachText 5000	208.0035.008	1	PERSONAL WordPerfect (Satellite Software International)	218.0035.024	1
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PC/Short Memory (Emulex) Specifications Chart			Pearlsoft Personal PEARL	221.0035.013	2	Specifications Chart	234.0045.109	2
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PC/88 (Computer Systems) Specifications Chart			Hardware Product Brief	228.0050.034	2	Specifications Chart	234.0045.007	2
PCjr (IBM) Compatibility Matrix			Specifications Chart	228.0045.031	2	Multiple Protocol Communications Controller		
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PCnet (Orchid Technology) Specifications Chart			Perfect Software Perfect Calc	207.0035.013	1	PC/Short Memory Specifications Chart	234.0045.007	2
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PERTEC COMPUTER

PRINTSTATION 240 (CENTRONICS)

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Hardware Product Brief	227.0050.030	2	Planet Baseband LAN (Racal-Milgo)			Specifications Chart	235.0045.511	2
SYSTEM 3200			Specifications Chart	238.0045.014	2	PR 5200 (Sanyo)		
Compatibility Matrix	227.0025.003	2	PLANFIN (Business Software Pty Ltd)	207.0035.003	1	Specifications Chart	235.0045.511	2
Hardware Product Brief	227.0050.031	2	Plansmith			PR 5500 (Sanyo)		
3215C			The Plansmith	214.0035.011	1	Specifications Chart	235.0045.511	2
Specifications Chart	227.0045.058	2	PlanStar (MicroPro International)	207.0035.011	1	Practical Accountant (Softlink)	202.0035.012	1
3220C			PLATO Personal Training Station			Practitioner's Software Package		
Specifications Chart	227.0045.059	2	(Control Data)			(Client Accounting Systems)	215.0035.007	1
3230C			Compatibility Matrix	228.0025.001	2	Pragmatronics		
Specifications Chart	227.0045.059	2	Hardware Product Brief	228.0050.009	2	TiENET Baseband LAN		
3240C			Please (Hayes Microcomputer			Specifications Chart	238.0045.013	2
Specifications Chart	227.0045.059	2	Products)	221.0035.007	2	Precision Visuals		
Pertmaster (Westminster Software)	204.0035.007	1	Plexus Computers			DI-3000	217.0035.022	1
PFS Write (Software Publishing)	218.0045.018	1	P/15			GRAFMAKER	217.0035.022	1
pfs:File (Software Publishing)	221.0035.016	2	Compatibility Matrix	227.0025.502	2	Premiere 35 (Citizen America)		
pfs:Graph (Software Publishing)	217.0035.025	1	Hardware Product Brief	227.0050.513	2	Specifications Chart	235.0045.009	2
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QUAD 3278 (QUADRAM)

RAMVANTAGE! (AST RESEARCH)

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ALPHABETICAL LISTING

RANDOM HOUSE PROOFREADER (DIGITAL MARKETING)

SANYO

Description	Report No.	Vol. No.	Description	Report No.	Vol. No.	Description	Report No.	Vol. No.
Random House Proofreader (Digital Marketing)	218.0035.008	1	Rental Inventory Management System (RIMS) (Single Source Solution)	215.0035.025	1	RR Software	225.0035.011	2
RB3 Relationship Banking System (Infoware)	214.0035.008	1	Rental Property Management (Faith Systems and Software)	215.0035.014	1	Janus/Ada	216.0035.004	1
RC Computer Partner			Report Manager AV (Datamension)	207.0035.006	1	RTA-331 (Ariel)	216.0035.004	1
Compatibility Matrix	228.0025.003	2	ResQ (Key Software)	221.0035.010	2	RTFILE (Contel Information Systems)	221.0035.005	2
Hardware Product Brief	228.0050.035	2	Retail Appliance Store System (Faith Systems and Software)	206.0035.006	1	RTM-10 (Qua Tech)	234.0045.119	2
RCA New Product Division			Retail Inventory (Micro Data)	206.0035.009	1	Runtime Revelation (Cosmos)	221.0035.006	2
CD-240			Retail Pharmacy System (Designers & Builders of Information Systems (DBIS))	215.0035.012	1	RWALL (First Principles Software)	216.0035.023	1
Specifications Chart	236.0045.014	2	Retail Solutions			RX-100 (Epson America)	235.0045.020	2
MA-121			The Retailer	206.0035.014	1	Specifications Chart		
Specifications Chart	236.0045.014	2	Reveal Software			RX02 Diskette Device (Digital Equipment)	233.0045.004	2
MA-122			Reveal	214.0035.012	1	Specifications Chart		
Specifications Chart	236.0045.014	2	Revelation (Cosmos)	221.0035.005	2	RX50 Diskette Device (Digital Equipment)	233.0045.004	2
MB-121			Rexon Business Machines			Specifications Chart	233.0045.004	2
Specifications Chart	236.0045.014	2	Rexon RX 100			Ryan-McFarland		
MB-122			Specifications Chart	227.0045.064	2	RM/COBOL	225.0035.012	2
Specifications Chart	236.0045.014	2	Rexon RX 105			RM/COS	220.0035.007	2
MB-142			Specifications Chart	227.0045.064	2	RM/FORTRAN	225.0035.012	2
Specifications Chart	236.0045.014	2	Rexon RX 200			R2-B (Regency Systems)		
VP4012			Specifications Chart	227.0045.064	2	Specifications Chart	228.0045.033	2
Specifications Chart	236.0045.013	2	Rexon RX 205			R2-C (Regency Systems)		
RCD50 (Digital Equipment)			Specifications Chart	227.0045.065	2	Specifications Chart	228.0045.034	2
Specifications Chart	232.0045.011	2	Rexon RX 400					
RDS86 (Miltape)			Specifications Chart	227.0045.065	2	S.S.R.		
Specifications Chart	232.0045.023	2	Rexon RX 405			INFOTORY	206.0035.014	1
RD10 (Miltape)			Specifications Chart	227.0045.065	2	OMNIFILE	221.0035.017	2
Specifications Chart	232.0045.022	2	Rexon RX 450			225.0035.007	2	
RD160 (Miltape)			Specifications Chart	227.0045.066	2	S-Basic (Kaypro)		
Specifications Chart	232.0045.011	2	Rexon RX 50			S-PIPE (Service Supply Pipe Sizing) (Elite Software Development)	216.0035.020	1
RD31 (Digital Equipment)			Specifications Chart	227.0045.066	2	S-Trac (Trac Line Software)	215.0035.029	1
Specifications Chart	232.0045.011	2	RG Software Systems			S-400 (Printer Products)		
RD40 (Miltape)			Pro-Matic	224.0035.007	2	Specifications Chart	235.0045.508	2
Specifications Chart	232.0045.023	2	RGB*TOUCH (MICROTOUCH)			S-400 G (Printer Products)		
RD45 (Miltape)			Specifications Chart	236.0045.007	2	Specifications Chart	235.0045.508	2
Specifications Chart	232.0045.023	2	Ricoh			SABRE (Percut Computer)		
RD51 (Digital Equipment)			LP4080R			Compatibility Matrix	227.0025.003	2
Specifications Chart	232.0045.011	2	Specifications Chart	235.0045.510	2	Hardware Product Brief	227.0050.030	2
RD52 (Digital Equipment)			Ricoh SBC-16			Sakata USA		
Specifications Chart	232.0045.011	2	Compatibility Matrix	228.0025.003	2	SA1000		
RD53 (Digital Equipment)			Hardware Product Brief	228.0050.036	2	Specifications Chart	236.0045.015	2
Specifications Chart	232.0045.011	2	RP3400Q			SA1500		
Re-Run Data Storage (Ecom Associates)	216.0035.015	1	Specifications Chart	235.0045.510	2	Specifications Chart	236.0045.015	2
Reach! (AST Research)			1600 Printer			SC100		
Specifications Chart	234.0045.103	2	Specifications Chart	234.0045.026	2	Specifications Chart	236.0045.015	2
REACTORPAK (Physical Sciences)	216.0035.036	1	Ricoh Company Ltd			SC150		
Real Estate Analysis Package (REAP) (Execuware)	215.0035.013	1	Ricoh SBC-16			Specifications Chart	236.0045.015	2
Real Estate Analyzer (Howard Software Services)	215.0035.015	1	Hardware Product Brief	228.0050.507	2	SC200		
Real Estate Applications			Ricoh SBC-16 (Ricoh Company Ltd)			Specifications Chart	236.0045.015	2
(see Professional Services reports beginning with 215)			Hardware Product Brief	228.0050.507	2	SC300P		
Real Estate Management			RID (Dymek Corp)	223.0035.005	2	Specifications Chart	236.0045.015	2
(see Professional Services reports beginning with 215)			RIMS/MPG (Information & Systems Research)	224.0035.005	2	SG1000		
RealWorld General Ledger (RealWorld Software)	202.0035.012	1	RINGNET Baseband LAN (Prime Computer)			Specifications Chart	236.0045.016	2
Specifications Chart			Specifications Chart	238.0045.013	2	SG1500		
RealWorld Inventory Control (RealWorld Software)	206.0035.013	1	Ringway Baseband LAN (Technology Concepts)			Specifications Chart	236.0045.016	2
Specifications Chart			Specifications Chart	238.0045.017	2	Sales Analysis		
RealWorld Order Entry/Billing (RealWorld Software)	206.0035.013	1	Rio Grande (STB Systems)			(see reports beginning with 206)		
Specifications Chart			Specifications Chart	234.0045.207	2	Sales Invoicing (State of the Art)	206.0035.016	1
RealWorld Payroll (RealWorld Software)	203.0035.012	1	Rio Plus IIA (STB Systems)			Sales Invoicing System (Compact Software International)	201.0035.002	1
Specifications Chart			Specifications Chart	234.0045.208	2	Sales Ledger (Compact Software International)	201.0035.003	1
RealWorld Sales Analysis (RealWorld Software)	206.0035.013	1	Rixon			Sales Order Entry (Faith Systems and Software)	206.0035.007	1
RealWorld Accounts Payable	200.0035.009	1	R103J Long-Haul Modem			Sales Order Processing System (Open Systems)	206.0035.011	1
RealWorld Accounts Receivable	201.0035.009	1	Specifications Chart	237.0045.012	2	Sales/Distribution		
RealWorld General Ledger	202.0035.012	1	T108 Long-Haul Modem			(see reports beginning with 206)		
RealWorld Inventory Control	206.0035.013	1	Specifications Chart	237.0045.012	2	SALVO (Software Automation)	224.0035.008	2
RealWorld Order Entry/Billing	206.0035.013	1	RL02 (Digital Equipment)			Samna		
RealWorld Payroll	203.0035.012	1	Specifications Chart	232.0045.012	2	Samna Word II	218.0035.024	1
RealWorld Sales Analysis	206.0035.013	1	RM/COBOL (Ryan-McFarland)	225.0035.012	2	SAMNA WORD III	218.0045.015	1
Redding Group			RM/COS (Ryan-McFarland)	220.0035.007	2	SAMNA+	218.0045.016	1
GrafTalk	217.0035.023	1	RM/FORTRAN (Ryan-McFarland)	225.0035.012	2	Samna Word II (Samna)	218.0035.024	1
Reflex (Analytica)	221.0035.001	2	Gary Robben & Associates			SAMPLE (COADE)	216.0035.006	1
ReformatTer (Microtech Exports)	223.0035.008	2	A/L Monitor	214.0035.012	1	Samson (SGS Semiconductor)		
Regency Systems			Robie (Kaypro)			Specifications Chart	227.0045.068	2
R2-B			Specifications Chart	228.0045.023	2	Sanyo		
Specifications Chart	228.0045.033	2	Roger Wagner Publishing			CRT 40		
R2-C			Mousewrite	218.0045.020	1	Specifications Chart	236.0045.016	2
Specifications Chart	228.0045.034	2	Roland DG			CRT 41		
RELAY (VM Personal Computing)	222.0035.018	2	CC-121			Specifications Chart	236.0045.016	2
RELAY/TOS (VM Personal Computing)	222.0035.018	2	Specifications Chart	236.0045.013	2	CRT 80		
RELIANT (NoHALT Computers)			ROOTS (Dynacomp)	216.0035.013	1	Specifications Chart	236.0045.016	2
Specifications Chart	227.0045.054	2	RoseSoft Inc			CRT 88		
Remex			ProKey	223.0035.009	2	Specifications Chart	236.0045.016	2
Radius of Curvature Well Survey Program	216.0035.038	1	ROUTE-Runoff Detention Basin (Binkley Software)	216.0035.004	1	Specifications Chart	236.0045.016	2
			RP3400Q (Ricoh)			MB3 1100, MB3 1150		
			Specifications Chart	235.0045.510	2	Compatibility Matrix	228.0025.300	2
						Hardware Product Brief	228.0050.036	2

ALPHABETICAL LISTING

SAP-2D (ADVANCED STRUCTURAL TECHNOLOGY)

SERVICE INDUSTRY APPLICATIONS

Description	Report No.	Vol. No.	Description	Report No.	Vol. No.	Description	Report No.	Vol. No.
MBC 1200, MBC 1250			Lab Tender			Selector V (MICRO-AP)	221.0035.012	2
Compatibility Matrix	228.0025.300	2	Specifications Chart	234.0045.121	2	Selfware		
Hardware Product Brief	228.0050.037	2	Scorpio (General Robotics)			CONVERT	223.0035.010	2
MBC 4000, MBC 4050			Specifications Chart	227.0045.033	2	Sendero		
Compatibility Matrix	228.0025.300	2	Scratch Pad (Supersoft)	207.0035.018	1	Micro-FRS	214.0035.013	1
Hardware Product Brief	228.0050.037	2	ScratchPad Plus (Supersoft)	207.0035.019	1	Senior Analyst (Apple Computer)	207.0035.002	1
MBC 550, MBC 555			ScratchPad with Voice Drive (Supersoft)	207.0035.019	1	Senior Partner RL-H7000 & RL-H7000W (Panasonic Industrial)		
Compatibility Matrix	228.0025.300	2	ScreenMaster (Software Strategies)	224.0035.009	2	Specifications Chart	229.0045.012	2
Hardware Product Brief	228.0050.038	2	Screenwriter II (Sierra On-Line)	218.0035.027	1	Senior Partner RL-H7100 (Panasonic Industrial)		
MBC 555-2			Scribe Master Board (Tecmar)	234.0045.123	2	Specifications Chart	229.0045.012	2
Specifications Chart	228.0045.034	2	Specifications Chart	234.0045.123	2	Sensible Software		
MBC 880			SCRIPSIT (Tandy (Radio Shack))	218.0035.031	1	APLUS	224.0035.008	2
Specifications Chart	228.0045.034	2	SCRIPSIT Spelling Dictionary (Tandy (Radio Shack))	218.0035.032	1	BASIC Enhanced Software Tools (B.E.S.T.)	224.0035.008	2
MBC-675			SCRIPT/SCRATCH (Computer Marketing Services)	218.0035.005	1	Black's Law Dictionary	218.0035.026	1
Specifications Chart	229.0045.013	2	ScrollMate (Inner Loop Software)	223.0035.007	2	Bookends	218.0035.026	1
MBC-775e			SC100 (Sakata USA)	236.0045.015	2	DISK RECOVERY	223.0035.010	2
Specifications Chart	229.0045.013	2	Specifications Chart	236.0045.015	2	Edit-Soft	224.0035.008	2
PR 3000			SC150 (Sakata USA)	236.0045.015	2	Graphics Department	217.0035.023	1
Specifications Chart	235.0045.511	2	Specifications Chart	236.0045.015	2	Image Printer II	217.0035.024	1
PR 5200			SC200 (Sakata USA)	236.0045.015	2	Multi-Disk Catalog III	223.0035.010	2
Specifications Chart	235.0045.511	2	Specifications Chart	236.0045.015	2	Sensible Speller	218.0035.026	1
PR 5500			SC300P (Sakata USA)	236.0045.015	2	SUPER DISK COPY	223.0035.010	2
Specifications Chart	235.0045.511	2	Specifications Chart	236.0045.015	2	The Bug	224.0035.008	2
SAP-2D (Advanced Structural Technology)	216.0035.001	1	SD-320 Diskette Device (Epson America)			Sensible Speller (Sensible Software)	218.0035.026	1
Satellite Software International			Specifications Chart	233.0045.005	2	Sentinel Computer		
PERSONAL WordPerfect	218.0035.024	1	SD-321 Diskette Device (Epson America)			DS-130		
WordPerfect	218.0035.025	1	Specifications Chart	233.0045.005	2	Specifications Chart	227.0045.067	2
WordPerfect 4.1	218.0045.016	1	SD-521 Diskette Device (Epson America)			DS-140		
Saturn Systems			Specifications Chart	233.0045.005	2	DS-170		
SATURN-CALC	207.0035.014	1	SD-540 Diskette Device (Epson America)			Specifications Chart	227.0045.068	2
SATURN-CALC (Saturn Systems)	207.0035.014	1	Specifications Chart	233.0045.005	2	DS-180		
Savant			SD-560 Diskette Device (Epson America)			Specifications Chart	227.0045.068	2
OptionCalc	214.0035.012	1	SD-580 Diskette Device (Epson America)			Sequitur (Golemica)	221.0035.007	2
The Fundamental Investor	214.0035.012	1	Specifications Chart	233.0045.005	2	SERCAL (Golden State Business Systems)	216.0035.024	1
The Technical Investor	214.0035.012	1	SDI-SSC (Sigma Designs)			SERCAL (Threshold Software)	216.0035.041	1
Savvy			Specifications Chart	233.0045.005	2	Serial Grappler (Orange Micro)		
SAVVEY PC	225.0035.012	2	SDI-384 (Sigma Designs)			Specifications Chart	234.0045.309	2
SA1000 (Sakata USA)			Specifications Chart	234.0045.207	2	Serial Interface Adapter (Quadram)		
Specifications Chart	236.0045.015	2	SDLC Communications Adapter (IBM)			Specifications Chart	234.0045.311	2
SA1500 (Sakata USA)			Specifications Chart	234.0045.207	2	Serial/Parallel Adapter (IBM)		
Specifications Chart	236.0045.015	2	SDNET Baseband LAN (Software Dynamics)			Specifications Chart	234.0045.113	2
SA801 Diskette Device (Shugart)			Specifications Chart	238.0045.015	2	Series 1 and 2 (Cifer Systems Ltd)		
Specifications Chart	233.0045.011	2	SDSNET Baseband LAN (Scientific Data Systems)			Specifications Chart	227.0045.013	2
SB-80 (Lifeboat Associates)	220.0035.004	2	Specifications Chart	238.0045.015	2	Series 1000 (Logical Business Machines)		
SBC 86/87 (Teletex)			Seasoned Systems			Specifications Chart	227.0045.046	2
Specifications Chart	234.0045.014	2	SureStroke	223.0035.010	2	Series 1000 (Micro Five Computers)		
SBC-I (Teletex)			Secure (Winterhalter)			Compatibility Matrix	227.0025.003	2
Specifications Chart	234.0045.014	2	Specifications Chart	234.0045.126	2	Hardware Product Brief	227.0050.025	2
SBC-II (Teletex)			SEDIT (Software Dynamics)	218.0035.028	1	Specifications Chart	227.0045.046	2
Specifications Chart	234.0045.014	2	Seequa Computer			Series 16 (Pronto Computers)		
SBCC & ELCO Systems			Chameleon, Chameleon Plus			Specifications Chart	228.0045.033	2
Professional Job Accounting and Control System (PJACS)	215.0035.024	1	Compatibility Matrix	229.0025.002	2	Series 2000 (Zentec)		
SBE			Hardware Product Brief	229.0050.019	2	Compatibility Matrix	227.0025.004	2
S200/300 Series			Cobra			Hardware Product Brief	227.0050.042	2
Specifications Chart	227.0045.066	2	Compatibility Matrix	228.0025.003	2	Specifications Chart	227.0045.081	2
S250/350 Series			Hardware Product Brief	228.0050.038	2	Series 2000, Model 240 (Motorola Four-Phase Systems)		
Specifications Chart	227.0045.067	2	Specifications Chart	228.0045.035	2	Specifications Chart	227.0045.048	2
SBSG Inventory (Small Business Systems Group)	206.0035.015	1	Seequa/PC			Series 2000, Model 260 (Motorola Four-Phase Systems)		
SBSG Invoicing (Small Business Systems Group)	206.0035.015	1	Specifications Chart	228.0045.035	2	Specifications Chart	227.0045.048	2
SB384 Time Spectrum (Emulex)			Seequa/PC, Seequa/XT			Series 5 (Altos Computer Systems)		
Specifications Chart	234.0045.203	2	Compatibility Matrix	228.0025.003	2	Compatibility Matrix	227.0025.001	2
SCDIST (COADE)	216.0035.006	1	Hardware Product Brief	228.0050.039	2	Hardware Product Brief	227.0050.004	2
Schuchardt Software Systems			Specifications Chart	228.0045.035	2	Specifications Chart	227.0045.069	2
InteWord	218.0035.025	1	Seequa/XT			Series 5000, Model 40 (Sperry)		
	218.0045.016	1	Specifications Chart	228.0045.035	2	Specifications Chart	227.0045.070	2
SCI Systems			Seequa/PC, Seequa/XT (Seequa Computer)			Series 5000, Model 60 (Sperry)		
1080/1180 Ticket Printer			Compatibility Matrix	228.0025.003	2	Specifications Chart	227.0045.070	2
Specifications Chart	235.0045.511	2	Seiko Series 8600 (SCI-COM Computer Systems)			Specifications Chart	227.0045.070	2
1110/1100			Compatibility Matrix	227.0025.003	2	Series 6000, System 6300 (Motorola Four-Phase Systems)		
Specifications Chart	235.0045.511	2	Hardware Product Brief	227.0050.035	2	Specifications Chart	227.0045.049	2
SCI-COM Computer Systems			Select Information Services			Series 6000, System 6600 (Motorola Four-Phase Systems)		
Seiko Series 8600			Select Write	218.0035.025	1	Specifications Chart	227.0045.049	2
Compatibility Matrix	227.0025.003	2	Select: The Word Processor	218.0035.026	1	Series 9 (Cifer Systems Ltd)		
Hardware Product Brief	227.0050.035	2	Select Write (Select Information Services)	218.0035.025	1	Specifications Chart	227.0045.013	2
Sci-Mate Personal Data Manager (Institute for Scientific Information)	221.0035.009	2	Select: The Word Processor (Select Information Services)	218.0035.026	1	Series/1 Ring Baseband LAN (IBM)		
Scientific Data Systems						Specifications Chart	238.0045.008	2
SDSNET Baseband LAN						ServiceOnePlus (Executec)	208.0035.003	1
Specifications Chart	238.0045.015	2				Service Industry Applications (see Professional Services reports beginning with 215)		
Scientific Solutions								
Base Board								
Specifications Chart	234.0045.207	2						
DADIO Board								
Specifications Chart	234.0045.121	2						
IEEE-488 Interface Board								
Specifications Chart	234.0045.121	2						
Lab Master								
Specifications Chart	234.0045.121	2						

ALPHABETICAL LISTING

SFD-51A DISKETTE DEVICE (PERSONAL MICRO COMPUTERS)

SOLOMON III GENERAL ACCOUNTING (SOLOMON SERIES SOFTWARE)

Description	Report No.	Vol. No.	Description	Report No.	Vol. No.	Description	Report No.	Vol. No.
SFD-51A Diskette Device (Personal Micro Computers)			SBSG Invoicing	206.0035.015	1	SoftText		
Specifications Chart	233.0045.011	2	Telset	215.0035.025	1	Lex Word Processing System	218.0045.017	1
SGAP (COADE)	216.0035.007	1	The Small Computer Company			Softkey Software Products		
SGS Semiconductor			filePro 16	221.0035.016	2	KeyChart	217.0035.024	1
Samson			Smart Systems			Softlink		
Specifications Chart	227.0045.068	2	SMARTSCREEN	224.0035.008	2	Practical Accountant	202.0035.012	1
SG1000 (Sakata USA)			Smart Terminal (Howe Software)	222.0035.005	2	SOFTPLOT/BGL (Mosaic Software)	217.0035.020	1
Specifications Chart	236.0045.016	2	Smart Word Processor (Innovative Software)	218.0045.006	1	Softnd		
SG1500 (Sakata USA)			Smartcom I (Hayes Microcomputer Products)	222.0035.004	2	Aura	208.0035.008	1
Specifications Chart	236.0045.016	2	Smartcom II (Hayes Microcomputer Products)	222.0035.005	2	Softronic		
Shared Systems Technologies			SmarTerm 100 (Persoft)	222.0035.012	2	Softerm	220.0025.004	2
ACE	222.0035.013	2	SmarTerm 125 (Persoft)	222.0035.012	2		222.0035.014	2
Sharp Electronics			SmarTerm 220 (Persoft)	222.0035.013	2	Softerm PC	222.0035.015	2
PC-5000			SmarTerm 400 (Persoft)	222.0035.013	2	Softerm 1	222.0035.014	2
Compatibility Matrix	229.0025.002	2	SMARTSCREEN (Smart Systems)	224.0035.008	2	Softerm 2	222.0035.015	2
Hardware Product Brief	229.0050.021	2	SMC Software Systems			Software Arts		
Specifications Chart	229.0045.013	2	SMC Thoroughbred BASIC	225.0035.012	2	The VisiCalc Package	207.0035.015	1
PC-7000			Thoroughbred Accounting Software Series	205.0035.011	1	TKISolver	207.0035.016	1
Specifications Chart	229.0045.014	2	Thoroughbred/OS	220.0035.007	2	Software Automation		
Shear Wall Analysis (Ecom Associates)	216.0035.015	1	SMC-70 (Sony)			SALVO	224.0035.008	2
Short Circuit Calculation Program (Elite Software Development)	216.0035.020	1	Compatibility Matrix	228.0025.004	2	The Software Connection		
Short RAM (Quadram)			Hardware Product Brief	228.0050.040	2	DECISION S/1000	221.0035.016	2
Specifications Chart	234.0045.012	2	SMD-110 Diskette Device (Epson America)			Software Connections		
Short-Port Color Card (Emulex)			Specifications Chart	233.0045.005	2	LAN: Mail Monitor	222.0035.016	2
Specifications Chart	234.0045.305	2	SMD-120 Diskette Device (Epson America)			Software Dynamics		
SHUBOX Agricultural Financial System (Agricultural Management Systems)	215.0035.002	1	Specifications Chart	233.0045.005	2	SDNET Baseband LAN		
Shugart			SMD-130 Diskette Device (Epson America)			Specifications Chart	238.0045.015	2
SA801 Diskette Device			Specifications Chart	233.0045.005	2	SEdit	218.0035.028	1
Specifications Chart	233.0045.011	2	SMD-140 Diskette Device (Epson America)			Type	218.0035.029	1
SID (Digital Research)	223.0035.005	2	Specifications Chart	233.0045.005	2		218.0045.017	1
Siemens AG			SMD-150 Diskette Device (Epson America)			Software Express		
PC 16			Specifications Chart	233.0045.005	2	APPGEN	224.0035.009	2
Compatibility Matrix	228.0025.003	2	SMD-160 Diskette Device (Epson America)			Financial Series	205.0035.012	1
Hardware Product Brief	228.0050.039	2	Specifications Chart	233.0045.006	2	Software Group		
PT 88			SMD-170 Diskette Device (Epson America)			Programmer's Apprentice	224.0035.009	2
Specifications Chart	235.0045.512	2	Specifications Chart	233.0045.006	2	Software Hows		
PT 89			SMD-180 Diskette Device (Epson America)			MicroDent	215.0035.025	1
Specifications Chart	235.0045.512	2	Specifications Chart	233.0045.006	2	MicroMed	215.0035.026	1
2712 M203			SMD-190 Diskette Device (Epson America)			Software Module Marketing		
Specifications Chart	235.0045.512	2	Specifications Chart	233.0045.006	2	PC-TRACS	222.0035.016	2
Sierra On-Line			SMD-200 Diskette Device (Epson America)			Software Products International		
HomeWord	218.0035.027	1	Specifications Chart	233.0045.006	2	LogiCalc	207.0035.016	1
Screenwriter II	218.0035.027	1	SMD-210 Diskette Device (Epson America)			MedAccount	215.0035.026	1
THE DIC-TIO-NARY	218.0035.027	1	Specifications Chart	233.0045.006	2	Open Access	208.0035.009	1
Sigma Designs			SMD-220 Diskette Device (Epson America)			ProCalc	207.0035.017	1
Color 400			Specifications Chart	233.0045.006	2	Software Publishing		
Specifications Chart	234.0045.311	2	SMD-230 Diskette Device (Epson America)			PFS Write	218.0045.018	1
Graph Dazzler			Specifications Chart	233.0045.006	2	pfs:File	221.0035.016	2
Specifications Chart	234.0045.311	2	SMD-240 Diskette Device (Epson America)			PFS:Graph	217.0035.025	1
Graph Dazzler II			Specifications Chart	233.0045.006	2	pfs:Report	221.0035.017	2
Specifications Chart	234.0045.311	2	Smith-Corona			PFS:Write	218.0035.029	1
Maximizer			D-100			Software Resources		
Specifications Chart	234.0045.207	2	Specifications Chart	235.0045.512	2	Pro/Vest	214.0035.014	1
SDI-SSC			D-200			Software Solutions		
Specifications Chart	234.0045.207	2	Specifications Chart	235.0045.512	2	Accounts Payable	200.0035.009	1
SDI-384			D-300			Accounts Receivable	201.0035.010	1
Specifications Chart	234.0045.207	2	Specifications Chart	235.0045.513	2	Inventory Pro	206.0035.015	1
SIGMA1 (COADE)	216.0035.007	1	L-1000			Logicaledger	202.0035.012	1
Sign-Master (Decision Resources)	217.0035.007	1	Specifications Chart	235.0045.513	2	Payroll	203.0035.012	1
Signum Microsystems			Smoke Signal Broadcasting			Software Sorcery		
Documax	223.0035.011	2	TMMP/Calc	207.0035.015	1	Apple Bulletin Board System (ABBS)	222.0035.016	2
Silicon Valley			VAR/68			Pascal Interactive Terminal Software (PITS)	220.0035.017	2
WORD HANDLER II	218.0035.027	1	Specifications Chart	227.0045.069	2		222.0035.016	2
Silver Quadboard (Quadram)			Specifications Chart	227.0045.069	2	PUMP	222.0035.017	2
Specifications Chart	234.0045.206	2	Snow Load Analysis (Ecom Associates)	216.0035.015	1	Software Strategies		
Simultaneous Non-Linear Equations (Kelix Software Systems)	216.0035.030	1	Sofstar			ScreenMaster	224.0035.009	2
Simutek Computer Products			Business Planning Tool (BPT)	207.0035.015	1	Software Systems		
Copy Art II	218.0035.028	1	SOFSYS			COGEN	216.0035.039	1
Sinclair Optics			Executive Secretary	218.0035.028	1	COMBUSTION	216.0035.039	1
OSLO-85	216.0035.038	1	Softec Information Systems	218.0045.017	1	FLUIDFLO	216.0035.039	1
Single Source Solution			AccountMate II Software	205.0035.012	1	STEAMCALC	216.0035.039	1
BuySel	214.0035.013	1	Softech Microsystems			The Software Toolworks		
Financial Package for Service Stations (FPSS)	215.0035.024	1	BASIC	225.0035.013	2	PIE 1.5c	218.0035.030	1
Portmap	214.0035.014	1	FORTTRAN-77	225.0035.013	2	Spell	218.0035.030	1
Rental Inventory Management System (RIMS)	215.0035.025	1	FORTTRAN-77 and BASIC Runtime			Software Systems		
STUDENT RECORD SYSTEM	215.0035.025	1	Units	225.0035.013	2	MultiMate	218.0035.029	1
SIO4-DMA (Dual Systems)			p-System	220.0035.007	2	Solaris Computer		
Specifications Chart	234.0045.108	2	UCSD-Pascal	225.0035.013	2	Solaris PCE 1000		
SixPakPlus (AST Research)			Softel			Hardware Product Brief	228.0050.507	2
Specifications Chart	234.0045.202	2	Videogram	217.0035.024	1	Solaris 1000		
Sky Software			Softerm (Softronic)			Compatibility Matrix	228.0025.004	2
PAYPACK	203.0035.012	1		220.0025.004	2	Hardware Product Brief	228.0050.040	2
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Small Business Systems Group			Softerm PC (Softronic)	222.0035.015	2	Solaris PCE 1000 (Solaris Computer)		
SBSG Inventory	206.0035.015	1	Softerm 1 (Softronic)	222.0035.014	2	Hardware Product Brief	228.0050.507	2
			Softerm 2 (Softronic)	222.0035.015	2	SOLOMON III Accounts Payable (TLB)	200.0035.012	1
			SoftTest			SOLOMON III Accounts Receivable (TLB)	201.0035.012	1
			LEX-86 and LEX-68	218.0035.028	1	Solomon III General Accounting (Solomon Series Software)	205.0035.013	1

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SOLOMON III PAYROLL (COMPUTECH GROUP)

STRATEGIC LOCATIONS PLANNING

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Solomon Series Software			Series 5000, Model 20			STAR PC		
Job Costing	204.0035.006	1	Specifications Chart	227.0045.069	2	Specifications Chart	227.0045.071	2
Solomon III General Accounting	205.0035.013	1	Series 5000, Model 40			StarBurst (MicroPro International)	208.0035.005	1
SOLOMON-III Fixed Assets (Computech Group)	202.0035.003	1	Specifications Chart	227.0045.070	2	Starnet II Baseband LAN (Protex Industries)		
SOLOMON-III General Ledger (Computech Group)	202.0035.003	1	Series 5000, Model 60			Specifications Chart	238.0045.014	2
SOLOMON-III Inventory (Computech Group)	202.0035.003	1	Specifications Chart	227.0045.070	2	Starsoft		
SOLOMON-III Sales Order Entry/Invoicing (Computech Group)	206.0035.004	1	Series 5000, Model 80			CPApartner	215.0035.027	1
Sony			Specifications Chart	227.0045.070	2	PROpartner	215.0035.027	1
CPD-1201			Sperry Personal Computer			STARWRITER D10-40 (C. Itoh Digital Products)		
Specifications Chart	236.0045.017	2	Compatibility Matrix	228.0025.004	2	Specifications Chart	235.0045.033	2
CPD-9000			Hardware Product Brief	228.0050.042	2	STARWRITER F10-55 (C. Itoh Digital Products)		
Specifications Chart	236.0045.017	2	Specifications Chart	228.0045.036	2	Specifications Chart	235.0045.033	2
KV-1311CR			Sperry Portable Computer			STARWRITER Y10-20 (C. Itoh Digital Products)		
Specifications Chart	236.0045.017	2	Compatibility Matrix	229.0025.002	2	Specifications Chart	235.0045.033	2
OA-D32V Diskette Device			Hardware Product Brief	229.0050.022	2	STARWRITER Y10-20 (C. Itoh Digital Products)		
Specifications Chart	233.0045.011	2	Spinwriter 300 Series (NEC Information Systems)			Specifications Chart	235.0045.033	2
OA-D32W Diskette Device			Specifications Chart	235.0045.501	2	State of the Art		
Specifications Chart	233.0045.011	2	Spinwriter 3500 Series (NEC Information Systems)			Accounts Payable	200.0035.010	1
OA-D33V Diskette Device			Specifications Chart	235.0045.501	2	Budget & Financial Reporting	202.0035.013	1
Specifications Chart	233.0045.011	2	Spinwriter 8800 Series (NEC Information Systems)			General Ledger	202.0035.013	1
Specifications Chart	233.0045.011	2	Specifications Chart	235.0045.501	2	Inventory Control	206.0035.016	1
SMC-70			Spot Systems			Payroll	203.0035.014	1
Compatibility Matrix	228.0025.004	2	Foreign Exchange Trading System	214.0035.014	1	Sales Invoicing	206.0035.016	1
Hardware Product Brief	228.0050.040	2	Money Market Trading System	214.0035.015	1	Statistics		
Sophisticated Operating System (SOS) (Apple Computer)	220.0035.001	2	SPREAD (L & L Products)	207.0035.011	1	(see reports beginning with 216)		
Sorcim/IUS			Spreadsheet Analysis			STATUS (International Market Resources)	206.0035.008	1
A.C.T.	224.0035.009	2	(see reports beginning with 205 and 207)			STB Systems		
EasyPlanner	207.0035.017	1	SPRINT 11/40 PLUS (Qume)			Atta Byte		
SuperCalc	207.0035.017	1	Specifications Chart	235.0045.510	2	Specifications Chart	234.0045.012	2
SuperCalc2	207.0035.018	1	SPRINT 11/55 PLUS (Qume)			Big Byte		
SuperCalc3	208.0035.009	1	Specifications Chart	235.0045.510	2	Specifications Chart	234.0045.013	2
SORD Computer of America			SPRINT 11/90 PLUS (Qume)			Chauffeur		
Consultant			Specifications Chart	235.0045.510	2	Specifications Chart	234.0045.312	2
Compatibility Matrix	229.0025.002	2	Spur and Helical Gear Analysis (Universal Technical Systems)			Colorific		
Hardware Product Brief	229.0050.021	2	Specifications Chart	235.0045.510	2	Specifications Chart	234.0045.312	2
IS-11C			SPUZ (VIASYN)			Grande Byte		
Compatibility Matrix	229.0025.002	2	Specifications Chart	234.0045.017	2	Specifications Chart	234.0045.013	2
Hardware Product Brief	229.0050.022	2	SP320 (Fujitsu Systems of America)			Graphix Plus II		
Specifications Chart	229.0045.014	2	Specifications Chart	235.0045.025	2	Specifications Chart	234.0045.312	2
M23 Series			SP830 (Fujitsu Systems of America)			Memory Companion/PC		
Compatibility Matrix	228.0025.004	2	Specifications Chart	235.0045.025	2	Specifications Chart	234.0045.013	2
Hardware Product Brief	228.0050.041	2	SP9000 SuperPET (Commodore Business Machines)			Mono Plus II		
M68 System			Compatibility Matrix	228.0025.001	2	Specifications Chart	234.0045.312	2
Compatibility Matrix	228.0025.004	2	Hardware Product Brief	228.0050.007	2	Quarter Byte		
Hardware Product Brief	228.0050.041	2	SQ 2000 (Epson America)			Specifications Chart	234.0045.013	2
Specifications Chart	223.0035.007	2	Specifications Chart	235.0045.020	2	Rio Grande		
SortIT (ITSoftware)			Sr. Partner (Panasonic Industrial)			Specifications Chart	234.0045.207	2
Southwest Systems			Compatibility Matrix	229.0025.002	2	Rio Plus IIA		
Accounts Payable	200.0035.009	1	Hardware Product Brief	229.0050.018	2	Specifications Chart	234.0045.208	2
Accounts Receivable	201.0035.010	1	SR-12 (Princeton Graphic Systems)			Super I/O II		
Cost Estimating	204.0035.006	1	Specifications Chart	236.0045.012	2	Specifications Chart	234.0045.208	2
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X-12+			SSM003 Diskette Device (Data Technology)			Steel Column and Base Plate Design (Ecom Associates)	216.0035.016	1
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Diskette Devices			Specifications Chart	234.0045.011	2	Compatibility Matrix	229.0025.002	2
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Specifications Chart Guide			Standard Engineering			Hardware Product Brief	229.0050.020	2
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Spectra-Text (Intecolor)	218.0035.013	1	Specifications Chart	238.0045.015	2	Specifications Chart	227.0045.071	2
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Spectrum Mapping System (SMAP) (Anastrol)	216.0035.003	1	Specifications Chart	227.0045.071	2	STM Software Systems		
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MICRO-LOGIC	216.0035.040	1	Star System 1 Accounts Receivable	201.0035.010	1	Star System 1 General Ledger	202.0035.013	1
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Specifications Chart	234.0045.124	2	Star System 1 General Ledger (Star Software Systems)			Star System 1 Payroll (Star Software Systems)	203.0035.013	1
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Spellbinder (Lexisoft)	218.0035.014	1						
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STRATUS COMPUTER

TANDY (RADIO SHACK)

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StrataLink Baseband LAN			Diagnostics II	224.0035.010	2	Specifications Chart	227.0045.019	2
Specifications Chart	238.0045.016	2	Disk-Edit (DED)	223.0035.011	2	System 300 (Wicat Systems)		
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Stride 420			Personal Data Base	221.0035.018	2	Hardware Product Brief	227.0050.041	2
Compatibility Matrix	227.0025.003	2	Scratch Pad	207.0035.018	1	SYSTEM 3200 (Pertec Computer)		
Hardware Product Brief	227.0050.036	2	ScratchPad Plus	207.0035.019	1	Compatibility Matrix	227.0025.003	2
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Stride 440			SSS FORTRAN	225.0035.016	2	System 4 Core (Charter Information)		
Compatibility Matrix	227.0025.003	2	TERM-PC	222.0035.017	2	Specifications Chart	227.0045.012	2
Hardware Product Brief	227.0050.036	2	SuperSort (MicroPro International)	223.0035.008	2	System 4 Trio (Charter Information)		
Specifications Chart	227.0045.072	2	SuperWriter (Computer Associates)	218.0045.004	1	Specifications Chart	227.0045.012	2
Stride 460			SureStroke (Seasoned Systems)	223.0035.010	2	System 400 (Cromemco)		
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Hardware Product Brief	227.0050.037	2	SURVEY SYSTEM 1.1 (C&G Software Systems)	216.0035.004	1	System 5000 Baseband LAN (Lanier Business Products)		
Specifications Chart	227.0045.072	2	Surveying Application Pac (Hewlett-Packard)	216.0035.026	1	Specifications Chart	238.0045.009	2
Stride 420 (Stride Micro)			Surveyors System (Sun Valley Systems)	216.0035.040	1	System 8000 (Zilog)		
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Stride 440 (Stride Micro)			Specifications Chart	234.0045.308	2	System 8000/12 (Zilog)		
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Stride 460 (Stride Micro)			Sykes Datatronics			Specifications Chart	227.0045.081	2
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Structural Engineering Programs (Ecom Associates)	216.0035.016	1	Comm-stor III			System 86/330x (Intel)		
Structured Systems Group (SSG)			Specifications Chart	228.0045.037	2	Compatibility Matrix	227.0025.002	2
Accounting Software Series	205.0035.014	1	Genus GC3			Hardware Product Brief	227.0050.024	2
Accounts Payable	200.0035.010	1	Specifications Chart	227.0045.072	2	System 86/380x (Intel)		
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Analyst	221.0035.018	2	SYNnet Baseband LAN (Syntex)			Hardware Product Brief	227.0050.024	2
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Inventory	206.0035.016	1	Syntactics			Compatibility Matrix	228.0025.002	2
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NAD Name and Address	218.0035.030	1	CrystalWriter Plus	218.0045.018	1	Specifications Chart	228.0045.022	2
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QSORT	223.0035.011	2	Specifications Chart	238.0045.016	2	Compatibility Matrix	227.0025.501	2
WindowMaster	208.0035.009	1	System I (Davidge)			Hardware Product Brief	227.0050.507	2
Word Right	218.0035.031	1	Specifications Chart	227.0045.025	2	Systemmaster (Teletek)		
STSC			System III (Davidge)			Specifications Chart	234.0045.014	2
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APL* PLUS/80	225.0035.014	2	System Integration Associates			Specifications Chart	234.0045.014	2
STUDENT RECORD SYSTEM (Single Source Solution)	215.0035.025	1	Client Accounting/Management System	215.0035.027	1	Systems Plus		
STX 80 (Star Micronics)			Dental System	215.0035.027	1	BOOKS! The Electronic Ledger	202.0035.014	1
Specifications Chart	235.0045.513	2	System IV (Davidge)			Medical Manager	215.0035.028	1
Sun Valley Systems			Specifications Chart	227.0045.026	2	The Wedge	207.0035.019	1
Surveyors System	216.0035.040	1	System 1 (Cromemco)			SYSTRAN (CompuView Products)	223.0035.003	2
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SUNED80/86M	224.0035.009	2	Specifications Chart	227.0045.018	2	Specifications Chart	238.0045.205	2
SUNDB80 (Sunbelt Computer Systems)	225.0035.014	2	System 100 (Wicat Systems)			S200/300 Series (SBE)		
SUNED80/86M (Sunbelt Computer Systems)	224.0035.009	2	Compatibility Matrix	227.0025.004	2	Specifications Chart	227.0045.066	2
Super Cadet (IBC/Integrated Business Computers)			Hardware Product Brief	227.0050.039	2	S250/350 Series (SBE)		
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Super Mail List (International Software Alliance)	218.0035.013	1	System 155 (Wicat Systems)			Tall Tree Systems		
Super RES 400 (STB Systems)			Compatibility Matrix	227.0025.004	2	JRAM 2		
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Super-Text Professional (Muse Software)	218.0035.019	1	System 200 (Wicat Systems)			Specifications Chart	234.0045.208	2
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SuperCalc3 (Sorcim/IUS)	208.0035.009	1	Specifications Chart	227.0045.079	2	Specifications Chart	233.0045.012	2
Supercomp Twenty (Access Technology)	207.0035.001	1	System 220 (Wicat Systems)			TM100-2 Diskette Device		
Superex Business Software			Compatibility Matrix	227.0025.502	2	Specifications Chart	233.0045.012	2
Superex Wholesaler	206.0035.017	1	Hardware Product Brief	227.0050.515	2	TM65-1L Diskette Device		
Superex Wholesaler (Superex Business Software)	206.0035.017	1	Specifications Chart	227.0045.080	2	Specifications Chart	233.0045.012	2
Superfile Backup (Pericom)			System 220 (Wicat Systems)			TM65-2L Diskette Device		
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SuperMicro (Rair Ltd)			Hardware Product Brief	227.0050.041	2	TM65-4 Diskette Device		
Compatibility Matrix	227.0025.003	2	Specifications Chart	227.0045.080	2	Specifications Chart	233.0045.012	2
Hardware Product Brief	227.0050.034	2	System 220 (Wicat Systems)			TM848E-1 Diskette Device		
SuperSCRIPSIT (Tandy (Radio Shack))	218.0035.032	1	Compatibility Matrix	227.0025.502	2	Specifications Chart	233.0045.012	2
Supersoft			Hardware Product Brief	227.0050.515	2	TM848E-2 Diskette Device		
Ada	225.0035.014	2	Specifications Chart	227.0045.080	2	Specifications Chart	233.0045.012	2
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DMP 2100 Specifications Chart	235.0045.514	2	TBACK (First Principles Software)	216.0035.023	1		225.0035.016	2
DMP 2200 Specifications Chart	235.0045.514	2	TCS INVENTORY (TCS Software)	206.0035.018	1	Technology Concepts		
DMP 430 Specifications Chart	235.0045.514	2	TCS Ledger (TCS Software)	202.0035.015	1	Etherway Baseband LAN Specifications Chart	238.0045.016	2
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Hardware Product Brief			TCS Payables	200.0035.011	1	Device Master Board		
Radio Shack TRS-80 Model 12			TCS Payroll	203.0035.015	1	Specifications Chart	234.0045.123	2
Compatibility Matrix	228.0025.004	2	TCS Receivables	201.0035.011	1	Dynamic Memory Board		
Hardware Product Brief	228.0050.042	2	TCS SALES	206.0035.018	1	Specifications Chart	234.0045.013	2
Specifications Chart	228.0045.037	2	TCS TOTAL MATERIALS	219.0035.008	1	Graphics Master Board		
Radio Shack TRS-80 Model 16B			TCS TOTAL MATERIALS (TCS Software)	219.0035.008	1	Specifications Chart	234.0045.312	2
Compatibility Matrix	227.0025.004	2	TEAC			Maestro AT Multifunction		
Hardware Product Brief	227.0050.037	2	FD-35 Series Diskette Device			Specifications Chart	234.0045.209	2
Specifications Chart			Specifications Chart	233.0045.012	2	Phonogate 2400		
Radio Shack TRS-80 Model 4			FD-55 Series Diskette Device			Specifications Chart	234.0045.123	2
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Hardware Product Brief	228.0050.043	2	TeamMate Double Play (Data Technology)			Specifications Chart	234.0045.123	2
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Radio Shack TRS-80 Model 4P			TeamMate 1110 (Data Technology)			Specifications Chart	234.0045.123	2
Compatibility Matrix	229.0025.002	2	Specifications Chart	232.0045.009	2	Scribe Tender Board		
Hardware Product Brief	229.0050.023	2	TeamMate 1120/1120AT (Data Technology)			Specifications Chart	234.0045.123	2
Specifications Chart	218.0035.031	1	Specifications Chart	232.0045.009	2	Speech Master Board		
SCRIPISIT	218.0035.032	1	TeamMate 1123/1223 (Data Technology)			Specifications Chart	234.0045.124	2
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TITAN 32K (TITAN TECHNOLOGIES)

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TM1103 Diskette Device (Data Technology)			S-Trac	215.0035.029	1	TYPEIT (Holliday Software)	223.0035.006	2
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4511 (FACIT)

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Specifications Chart	238.0045.018	2
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MICROWORLD

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HOW TO USE THIS DIRECTORY

This Microcomputer Vendor Directory is designed to provide you with a current and conveniently organized listing of microcomputer software, hardware, and peripherals vendors.

Once you have selected the software package or system that best satisfies your requirements, you are encouraged to use this Directory to save time and effort when contacting vendors. (Note, however, that vendor addresses and phone numbers are also included in the individual product reports for your convenience.)

Alphabetic Vendor Directory

The first section alphabetically lists all the microcomputer vendors featured in *MicroWorld*, with the complete vendor name, street address, city, state, zip code, and telephone number. In addition we have provided the *generic type* of micro software and hardware currently offered by each vendor.

Product Specific Vendor Directory

The second section, which lists microcomputer vendors by the products they offer, is organized according to specific hardware and software categories, such as accounts payable software, or accounts receivable software, or diskettes. All vendors who market products under a given category are listed in alphabetical order.

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Alphabetic Vendor Directory

A. B. DICK

Hardware: Local Area Networks
5700 W Touhy Ave
Chicago IL 60648
(312) 647-8800

A-SYSTEMS

Software: Professional Services
1610 S Main St
Bountiful UT 84010
(801) 298-0052

ABLE COMPUTER

Hardware: Microcomputers
1732 Reynolds Ave
Irvine CA 92714
(714) 979-7030

ABSOLUT SOFTWARE

Software: Sales/Distribution
2001 Beacon St
Boston MA 02146
(800) 227-8649
(617) 277-0610

ABSTRACT SYSTEMS

Software: Data Communications
RFD Lower Prospect Hill
Chester MA 01011
(413) 354-7750

ABW

Software: Data Base Management
PO Box M1047
Ann Arbor MI 48106
(313) 971-9364

ACCELERATED DATA SYSTEMS

Hardware: Microcomputers
1183 Bordeaux
Suite 18
Sunnyvale CA 94086
(408) 744-0264

ACCENT SOFTWARE

Software: Graphics
4546 El Camino
Los Altos CA 94022
(415) 949-2711

ACCESS TECHNOLOGY

Software: Decision Support
6 Pleasant St
South Natick MA 01760
(617) 655-9191

ACCOUNTANTS MICROSYSTEMS

Software: Integrated Accounting, Professional Services
1404 140th Pl NE
Bellevue WA 98007
(206) 643-2050

ACCUPIE

Software: Graphics
222 W Lancaster Ave
Paoli PA 19301
(215) 296-7345

ACCUSOFT ENTERPRISES

Software: Graphics
8043 Foothill Blvd
Sunland CA 91040
(213) 352-1233

ACE COMPUTER PRODUCTS

Software: Data Communications
1640 NW 3rd St
Deerfield Beach FL 33441
(305) 427-1257

ACORN COMPUTERS LTD

Hardware: Microcomputers
4a Market Hill
Cambridge
England CB2 3NJ
Telephone: (0223)245200

ACT

Software: Desktop Microcomputers, Portable
Microcomputers
3375 Scott Blvd
Suite 336
Santa Clara CA 95051
(408) 727-8090
Shenstone House
Dudley Rd Halesowen
West Midlands
B63 3NT England
Telephone: 021-501-2284

ACTION COMPUTER ENTERPRISE

Hardware: Microcomputers
55 W Del Mar Blvd
Pasadena CA 91150
(213) 793-2440

ACTRIX COMPUTER

Software: Portable Microcomputers
2159 Bering Dr
San Jose CA 95131
(408) 263-3660

ADDISON-WESLEY PUBLISHING

Software: Decision Support
Jacob Way
Reading MA 01867
(617) 944-3700

ADVANCED DATA SYSTEMS

Software: Data Communications
7468 Maple Ave
St Louis MO 63143
(314) 781-9388

ADVANCED MICRO DEVICES

Hardware: Add-on Memories
901 Thompson P1
Sunnyvale CA 94086
(408) 732-2400

ADVANCED STORAGE TECHNOLOGY

Hardware: Winchester
6580 Via Del Oro
San Jose CA 95119
(408) 224-8010

ADVANCED STRUCTURAL TECHNOLOGY

Software: Engineering/Scientific
PO Box 16659
Clayton MO 63105
(314) 725-8282

ADVENTURE INTERNATIONAL

Software: Languages
Box 3455
Longwood FL 32750
(305) 830-8194

AF SOFTWARE SERVICES

Software: Professional Services
1106 Greenfield Circle
Geneva IL 60134
(312) 232-0790

AGDATA

Software: Professional Services
891 Hazel St
Gridley CA 95948
(916) 846-6203

AGRICULTURAL MANAGEMENT SYSTEMS

Software: Professional Services
2770 Vista Ave
Boise ID 83705
(208) 345-4383

ALCOR SYSTEMS**Software:** Languages

800 West Garland Avenue Suite 100
Garland TX 75040
(214) 494-1316

ALEXANDER GRANT & CO**Software:** Integrated Accounting

555 Capitol Mall
Suite 500
Sacramento CA 95814
(916) 441-7232

ALGOL TECHNOLOGY**Hardware:** Display Monitors

303-3 Convention Way
Redwood City CA 94063
(415) 364-8314

ALLOY COMPUTER PRODUCTS**Hardware:** Winchesters

100 Pennsylvania Ave
Framingham MA 01701
(617) 875-6100

ALPHA COMPUTER SERVICE**Software:** Languages

PO Box 2517
Cypress CA 90630
(714) 894-6808

ALPHA MICRO**Software:** Multiuser Microcomputers**Hardware:** Microcomputers, Diskettes, Add-on Memories

17881 Sky Park N
PO Box 18347
Irvine CA 92713
(714) 957-1404

ALPHA OMEGA COMPUTER SYSTEMS**Hardware:** Add-on Memories

33871 Eastgate Circle
PO Box U
Corvallis OR 97330
(503) 754-1911

ALPHA SOFTWARE**Software:** Decision Support, Integrated Applications, Data Base Management

30 B St
Burlington MA 01803
(617) 229-2924

ALPHABIT COMMUNICATIONS**Software:** Graphics, Word Processing/Text Editing

13349 Michigan Ave
Dearborn MI 48126
(313) 581-2896

ALSPA COMPUTER**Hardware:** Local Area Networks

300 Harvey West Blvd
Santa Cruz CA 95060
(408) 429-6000

ALTOS COMPUTER SYSTEMS**Software:** Multiuser Microcomputers**Hardware:** Microcomputers, Local Area Networks

2360 Bering Dr
San Jose CA 95131
(408) 946-6700

AMCODYNE**Hardware:** Winchesters

1301 S Sunset St
Longmont CO 80501
(303) 772-2601

AMDEK**Hardware:** Printers, Display Monitors

2201 Lively Blvd
Elk Grove Village IL 60007
(312) 364-1180

AMERICAN BELL**Hardware:** Modems

Headquarters Plaza
One Speedwell Ave Rm 532E
Morristown NJ 07960
(201) 898-8327

AMERICAN BUSINESS SYSTEMS**Software:** Accounts Payable, Accounts Receivable, General Ledger, Payroll/Personnel, Sales/Distribution

3 Littleton Rd
Westford MA 01886
(617) 692-2600

AMERICAN PLANNING**Software:** Data Base Management, Languages

4600 Duke st
Suite 423
Alexandria VA 22304
(703) 751-2574

AMPEX**Hardware:** Winchesters

Memory Products Div
200 N Nash St
El Segundo CA 90245
(213) 640-0150

AMTRON**Hardware:** Display Monitors

2260 De la Cruz Blvd
Santa Clara CA 95050
(408) 748-8500

AMUST COMPAK MANUFACTURING PTY**Software:** Portable Microcomputers

50 Keys Rd
Moorabbin Victoria
3189 Australia
Telephone: 03-553-3755

ANACOMP**Software:** Manufacturing

12838 SE 40th P1
Bellevue WA 98006
(206) 641-4990

ANALYTIC ASSOCIATES**Software:** Professional Services

4817 Browndeer La
Rolling Hills Estates CA 90274
(213) 541-0418

ANATROL**Software:** Engineering/Scientific

Suite 227
11305 Reed Hartman Highway
Cincinnati OH 45241
(513) 984-5800

ANDENT**Software:** Professional Services

1000 North Ave
Waukegan IL 60085
(312) 223-5077

ANDERSON JACOBSON**Software:** Portable Microcomputers**Hardware:** Diskettes, Printers

521 Charcot Ave
San Jose CA 95131
(408) 263-8520

ANDROMEDA SYSTEMS**Hardware:** Add-on Memories

9000 Eton Ave
Canoga Pk CA 91304
(213) 709-7600

ANIDATA**Software:** Investment Services

6135 Jaeger Ct
Sicklerville NJ 08081
(609) 228-3034

ANOTHER DIRECTION**Software:** Professional Services

19 Rolling Road
East Brunswick NJ 08816
(201) 238-1333

APACHE ELECTRONIC SYSTEMS**Software:** Investment Services

900 Jorie Blvd #124
Oak Brook IL 60521
(312) 789-3330

APPEL & KREISS SOFTWARE**Software:** Professional Services

78 Alwat Street
Woodbridge NJ 07095
(201) 634-7137

APPLE COMPUTER**Software:** Decision Support, Word Processing/Text Editing, Operating Systems, Data Base Management, Data Communications, Program Development/Debugging, Languages, Desktop Microcomputers, Portable Microcomputers**Hardware:** Microcomputers, Diskettes, Printers

20525 Mariani Ave
Cupertino CA 95014
(408) 996-1010

APPLIED DATA RESEARCH**Software:** Data Base Management

Rt 206 & Orchard Rd CN-8
Princeton NJ 08540
(201) 874-9000

APPLIED DIGITAL DATA SYSTEMS**Software:** Multiuser Microcomputers**Hardware:** Microcomputers

100 Marcus Blvd
Hauppauge NY 11787
(516) 231-5400

APPLIED MICROCOMPUTER SYSTEMS**Software:** Accounts Receivable, Word Processing/Text Editing, Utilities

Box 150
Silver Lake NH 03875
(603) 367-8004

APPLIED SOFTWARE TECHNOLOGY**Software:** Data Base Management

170 Knowles Dr
Los Gatos CA 95030
(408) 370-2662

APPLIED SYSTEMS**Software:** Investment Services**Hardware:** Microcomputers

26401 Harper
Suite 1
St Clair Shores MI 48081
(313) 779-8700

APPLIED TECHNOLOGY VENTURES**Software:** Word Processing/Text Editing

610 National City
E 6th Bldg
Cleveland OH 44114
(216) 589-0525

APPLITEK**Hardware:** Local Area Networks

107 Audubon Rd
Wakefield MA 01880
(617) 246-4500

ARGOS SOFTWARE**Software:** Job Costing, Integrated Accounting

790 W Shaw Ave
Suite 360
Fresno CA 93704
(209) 221-7211

ARLINGTON SOFTWARE + SYSTEMS**Software:** Professional Services

97 Bartlett Ave
Arlington MA 02174
(617) 641-0290

ARROW MICRO SOFTWARE**Software:** Data Communications

11 Kingsford
Kanata ON K-2K IT5
Canada
(613) 592-4609

ARTSCI**Software:** Decision Support, Word Processing/Text Editing, Data Base Management

5547 Satsuma Ave
North Hollywood CA 91601
(213) 985-2922

ASHTON-TATE**Software:** Integrated Applications, Data Base Management

10150 W Jefferson Blvd
Culver City CA 90230
(213) 204-5570

ASK MICRO**Software:** Accounts Payable, Accounts Receivable, General Ledger, Payroll/Personnel, Integrated Accounting, Sales/Distribution

100 Blue Ravine Rd
Folsom CA 95630
(916) 985-6555

AST RESEARCH**Hardware:** Add-on Memories

2372 Morse Ave
Irvine CA 92714
(714) 540-1333

ASTROCOM**Hardware:** Modems

120 W Plato
St Paul MN 55107
(612) 227-8651

AT&T INFORMATION SYSTEMS**Software:** Multiuser Microcomputers, Desktop Microcomputers**Hardware:** Local Area Networks

475 State St
Morristown NJ 07960
(201) 564-4261

ATARI**Hardware:** Microcomputers, Modems

1265 Borregas Ave
PO Box 427
Sunnyvale CA 94086
(800) 538-8547

ATON INTERNATIONAL**Software:** Word Processing/Text Editing, Operating Systems, Data Communications

1765 Scott Blvd
Suite 119
Santa Clara CA 95050
(408) 554-9922

AUTODESK**Software:** Graphics

150 Shoreline Hwy
Bldg B
Mill Valley CA 94941
(415) 331-0356

AUTOGRAPHIX**Software:** Graphics

100 Fifth Ave
Waltham MA 02154
(617) 890-8558

AUTOMATED LANGUAGE PROCESSING SYSTEMS**Software:** Professional Services

190 W 800 N
Provo UT 84601
(801) 375-0090

AUTOMATED PROFESSIONAL SYSTEMS**Software:** Graphics

270 Madison Ave
New York NY 10016
(212) 725-2442

AUTOMATION CONSULTANTS INTERNATIONAL**Software:** Data Base Management

18070 Lake Encino Dr
Encino CA 91316
(213) 344-9270

AVIATION ANALYSIS

Software: Professional Services
333 Central Ave
Hinsdale IL 60521
(312) 986-1059

AWARD SOFTWARE

Software: Utilities
236 N Santa Cruz Ave
Los Gatos CA 95030
(408) 395-2773

AXEL JOHNSON

Software: Utilities, Program Development/Debugging
STEMMOS DIV
666 Howard St
San Francisco CA 94015
(415) 777-3800

AXIOM

Hardware: Printers
1014 Griswold Ave
San Fernando CA 91340
(213) 365-9521

BARRINGTON INTERNATIONAL

Hardware: Microcomputers
738 Airport Blvd
Suite 4
Ann Arbor MI 48104
(313) 769-7611

BASIS

Software: Professional Services
5435 Scotts Valley Dr
Scotts Valley CA 95066
(408) 438-5804

BEAMAN PORTER

Software: Word Processing/Text Editing
Pleasant Ridge Rd
Harrison NY 10528
(914) 967-3504

BEAR COMPUTERS

Software: Professional Services
102 N. Center St
Bloomington IL 61701
(309) 828-6031

BERZURK SYSTEMS

Software: Word Processing/Text Editing
1434 Parker St
Berkeley CA 94702

BGL TECHNOLOGY

Hardware: Diskettes
15452 Cabrito Rd
Suite 207
Van Nuys CA 91406
(213) 787-0535

BIG TREES SOFTWARE

Software: Graphics
728 Highway 4 Suite 2
PO Box D
Arnold CA 95223
(209) 795-5104

BILLINGS COMPUTER

Hardware: Microcomputers
18600 E 37th Terrace S
Independence MO 64057
(816) 373-0000

BINKLEY SOFTWARE

Software: Engineering/Scientific
7246 Sharon Dr
San Jose CA 95129
(408) 257-9252

BIZCOMP

Hardware: Modems
532 Mercury Dr
Sunnyvale CA 94086
(408) 733-7800

BLACKHAWK COMPUTERS

Hardware: Microcomputers
312 15th St
Bettendorf IA 52722
(319) 359-8887

BMA BUSINESS COMPUTERS

Software: Investment Services
301 Elm St
Leland IL 60531
(815) 495-2863

BMC COMPUTER

Hardware: Microcomputers
860 E Walnut St
Carson CA 90746
(213) 323-2600

BORLAND INTERNATIONAL

Software: Program Development/Debugging, Languages
4807 Scotts Valley Blvd
Scotts Valley CA 95006
(408) 438-8400

BOS NATIONAL

Software: Accounts Payable, Accounts Receivable, General Ledger, Sales/Distribution, Word Processing/Text Editing, Operating Systems
2560 Royal Ln
Dallas TX 75229
(214) 484-2717

BPI SYSTEMS

Software: Integrated Accounting
3423 Guadalupe
Austin TX 78705
(512) 454-2801

BRIDGE COMMUNICATIONS

Hardware: Local Area Networks
10401 Bubb Rd
Cupertino CA 95014
(408) 446-2981

BRIGHT UP INDUSTRIES

Hardware: Display Monitors
7158 Industrial Park Blvd
Mentor OH 44060
(216) 951-0144

BRISTOL INFORMATION SYSTEMS

Software: Accounts Receivable, Payroll/Personnel, Sales/Distribution, Professional Services
84 North Main Street
Fall River MA 02720
(617) 679-1051

BRODERBUND SOFTWARE

Software: Word Processing/Text Editing
17 Paul Dr
San Rafael CA 94903
(415) 479-1170

BURROUGHS

Software: Accounts Payable, Accounts Receivable, General Ledger, Payroll/Personnel, Sales/Distribution, Desktop Microcomputers
Hardware: Microcomputers
Burroughs Pl
Detroit MI 48232
(313) 972-7000

BUSINESS & PROFESSIONAL SOFTWARE

Software: Graphics
143 Binney St
Cambridge MA 02142
(617) 491-3377

BUSINESS MANAGEMENT SYSTEMS

Software: Professional Services
Grand View Rd
Sugar Hill NH 03585
(603) 823-5578

BUSINESS PLANNING SYSTEMS

Software: Decision Support
Two N State St
Dover DE 19901
(302) 674-5500

BUSINESS SOFTWARE PTY LTD

Software: Decision Support
10 Help St
Chatswood NSW Australia 2078
Telephone: 02-419-6077

BUSINESS SOLUTIONS

Software: Integrated Applications
60 E Main St
Kings Park NY 11754
(516) 269-1120

BYTEC-COMTERM

Software: Portable Microcomputers

Hardware: Microcomputers

8 Colonnade Rd
Ottawa, Ontario K2E 7M6
Canada
(613) 226-7013

BYTEL

Software: Program Development/Debugging

1029 D Solano Ave
Berkeley CA 94706
(415) 527-1157

BYTEWRITER

Hardware: Printers

125 Northview Rd
Ithaca NY 14850
(607) 272-1132

CADO SYSTEMS

Software: Investment Services, Professional Services,
Multiuser Microcomputers

Hardware: Microcomputers

2771 Toledo St
Torrance CA 90503
(213) 323-8170

CALIFORNIA SOFTWARE PRODUCTS

Software: Utilities

525 N Cabrillo Park Dr
Suite 300
Santa Ana CA 92701
(714) 973-0440

CALLAN DATA SYSTEMS

Software: Multiuser Microcomputers

Hardware: Microcomputers

2637 Townsgate Rd
Westlake Village CA 91361
(213) 991-9156

CAMBEX

Hardware: Add-on Memories

360 Second St
Waltham MA 02154
(617) 890-6000

CAMPBELL SCIENTIFIC

Hardware: Microcomputers, Modems

PO Box 551
Logan UT 84321
(801) 753-2342

CANDELA ELECTRONICS

Software: Professional Services

550 Del Rey Ave
Sunnyvale CA 94088-3461
(408) 738-3800

CANON USA

Software: Desktop Microcomputers

Hardware: Microcomputers, Printers

One Canon Plaza
Lake Success NY 11042-9979
(516) 488-6700

CAPRO

Hardware: Microcomputers

12781 Pala Dr
Garden Grove CA 92641
(714) 891-1109

CASIO

Hardware: Microcomputers

15 Gardner Rd
Fairfield NJ 07006
(201) 575-7400

CAXTON SOFTWARE PUBLISHING

Software: Data Base Management

10-14 Bedford Street
Covent Garden
London WC2E 9HE
England

CDEX CORP

Software: Utilities

5050 El Camino Real
Los Altos CA 94022
(800) 982-1213
(415) 964-7600

CENTERPOINT COMPUTER APPLICATIONS

Software: Graphics

500 N Michigan Ave
Chicago IL 60611
(312) 467-0333

CENTRAL DATA

Hardware: Microcomputers, Add-on Memories

1602 Newton Dr
Champaign IL 61820
(217) 359-8010

CENTURION COMPUTER

Hardware: Microcomputers

1202 E Arapaho Rd
Richardson TX 75081
(214) 934-5729

CERMETEK

Hardware: Modems

1308 Borregas Ave
Sunnyvale CA 94086
(408) 734-8150

CHAMPION SOFTWARE

Software: Accounts Payable, Accounts Receivable,
General Ledger, Payroll/Personnel,
Sales/Distribution

66 S Van Gordon
Suite 155
Lakewood CO 80228
(303) 987-2588

CHANG LABS

Software: Decision Support, Graphics

10228 N Stelling Rd
Cupertino CA 95014
(408) 725-8088

CHARLES RIVER DATA SYSTEMS

Hardware: Microcomputers

4 Tech Circle
Natick MA 01760
(617) 655-1800

CHRISLIN INDUSTRIES

Hardware: Microcomputers, Diskettes, Add-on
Memories

31352 Via Colinas
No 101
Westlake Village CA 91362
(213) 991-2254

CHROMATICS

Hardware: Microcomputers, Add-on Memories

2558 Mountain Industrial Blvd
Tucker GA 30084
(404) 493-7000

CIFER SYSTEMS LTD

Hardware: Microcomputers

Avro Way, Bowerhill
Melksham, Wiltshire
England SN12 6TP
Telephone: (0225) 706361

CLIENT ACCOUNTING SYSTEMS

Software: Professional Services

2331 NW 40th Ave #212
Ft Lauderdale FL 33313
(305) 733-3127

CMA MICRO COMPUTER

Software: Professional Services

55722 Santa Fe Trail
Yucca Valley CA 92284
(619) 365-9718

CMV SOFTWARE SPECIALISTS

Software: Professional Services

608 N Kowanis
Sioux Falls SD 57104
(605) 338-6645

CODATA SYSTEMS

Software: Multiuser Microcomputers

285 N Wolfe Rd
Sunnyvale CA 94086
(408) 735-1744

CODEWRITER CORP

Software: Program Development/Debugging

7847 N Caldwell Ave
Niles IL 60648
(312) 470-0700

CODEX

Hardware: Modems, Local Area Networks

20 Cabot Blvd
Mansfield MA 02048
(617) 364-2000

COHERENT COMMUNICATIONS

Hardware: Modems
60 Commerce Dr
Hauppauge NY 11788
(212) 895-6316

COLONIAL DATA SERVICES

Hardware: Microcomputers
105 Sanford St
Hamden CT 06514
(203) 288-2524

COLORCORP

Software: Investment Services
208 N Berkshire
Bloomfield Hills MI 48013
(313) 335-2255

COLUMBIA DATA PRODUCTS

Software: Multiuser Microcomputers, Portable
Microcomputers
Hardware: Microcomputers
8990 Route 108
Columbia MD 21045
(301) 992-3400

COMARK

Hardware: Microcomputers, Winchester, Diskettes
257 Crescent St
Waltham MA 02154
(617) 894-7000

COMDATA

Hardware: Modems
7900 N Nagle Ave
Morton Grove IL 60053
(312) 470-9600

COMMODORE BUSINESS MACHINES

Software: Desktop Microcomputers
Hardware: Microcomputers, Diskettes, Add-on
Memories, Printers, Modems
487 Devon Park Dr
Wayne PA 19087
(215) 687-9750

THE COMMUNI TREE GROUP

Software: Data Communications
470 Castro
Suite 207-3002
San Francisco CA 94114
(415) 474-0933

COMPACT SOFTWARE INTERNATIONAL

Software: Accounts Payable, Accounts Receivable,
Payroll/Personnel
Cape House, Cape Place
Dorking
Surrey
England
Telephone: (0306) 887373

COMPAL COMPUTER SYSTEMS

Software: Portable Microcomputers
Hardware: Microcomputers
8500 Wilshire Blvd
Beverly Hills CA 90211
(213) 652-2263

COMPAQ COMPUTER

Software: Desktop Microcomputers, Portable
Microcomputers
Hardware: Microcomputers
12330 Perry Rd
Houston TX 77070
(713) 890-7390

COMPLEX SYSTEMS

Hardware: Local Area Networks
4930 Research Dr
Huntsville AL 35805
(205) 830-4310

COMPUCOUNT

Software: General Ledger
PO Box 180046
Austin TX 78718
(512) 454-8823

COMPUGRAHIC

Software: Professional Services
200 Ballardvale St
Wilmington MA 01887
(617) 658-5600

COMPUMAX

Software: Manufacturing, Data Base Management
PO Box 7239
Menlo Park CA 94025
(415) 854-6700

COMPUPEG

Software: Professional Services
1202 W Ridgeway
Waterloo IA 50701
(319) 233-2816

COMPUPRO

Software: Multiuser Microcomputers
Hardware: Microcomputers
3506 Breakwater Ct
Hayward CA 94545
(415) 786-0909

COMPUSOL

Software: Professional Services
N Center Sq A120
5444 Buford Hwy
Doraville GA 30340
(404) 451-1033

COMPUTECH GROUP

Software: Accounts Payable, Accounts Receivable,
General Ledger, Payroll/Personnel,
Sales/Distribution
Main Line Industrial Park
Lee Blvd
Frazer PA 19355
(215) 644-3344
(215) 765-6666

COMPUTER ANCILLARIES LTD

Hardware: Microcomputers
64 High St
Egham, Surrey
England TW20 9EY
Telephone: (0784)36455

COMPUTER APPLICATIONS

Software: Data Communications, Utilities
13300 SW 108 Street Circle
Miami FL 33186
(305) 385-4277

COMPUTER ASSOCIATES

Software: Integrated Applications
125 Jericho Turnpike
Jericho NY 11753
(800) 645-3003
(516) 333-6700

COMPUTER AUTOMATION

Software: Multiuser Microcomputers, Desktop
Microcomputers
Hardware: Microcomputers
2181 Dupont Dr
Irvine CA 92713
(714) 833-8830

COMPUTER CONSULTING SERVICES

Software: Professional Services
611 Druid Rd East
Clearwater FL 33516
(813) 446-2643

COMPUTER CONTROL SYSTEMS

Software: Data Base Management, Utilities, Program
Development/Debugging
298 21st Terrace SE
Largo FL 33541
(813) 586-1886

COMPUTER DEVELOPMENT

Software: Word Processing/Text Editing
6700 SW 105th St
Beaverton OR 97005
(503) 646-1599

COMPUTER DEVICES

Software: Desktop Microcomputers
Hardware: Microcomputers
Two Penn Plaza
Suite 1500
New York NY 10121
(212) 695-3055

COMPUTER EXTENSION SYSTEMS

Hardware: Add-on Memories
17511 El Camino Real
Suite 131
Houston TX 77058
(713) 488-8830

COMPUTER HEADWARE

Software: Data Base Management
PO Box 14694
San Francisco CA 94114
(415) 647-8518

COMPUTER INNOVATIONS

Software: Languages
10 Mechanic St
Suite J-30X
Redbank NJ 07701
(201) 530-0995

COMPUTER MARKETING SERVICES

Software: Decision Support, Word Processing/Text Editing, Program Development/Debugging
26 Springdale Rd
Cherry Hill NJ 08003
(800) 222-0585
(609) 795-9480

COMPUTER MEMORIES

Hardware: Winchester
9216 Eton Ave
Chatsworth CA 91311
(818) 709-6445

COMPUTER METHODS

Software: Manufacturing
10335 W Okalhoma Ave
Milwaukee WI 53227
(414) 327-4471

COMPUTER OPTIONS

Software: Job Costing
142 Crescent St
Brockton MA 02402
(617) 583-5481

COMPUTER PRODUCTS INTERNATIONAL

Software: Payroll/Personnel
3225 Danny Park
New Orleans LA 70002
(504) 455-5330

COMPUTER STATION

Software: Graphics, Data Communications
11610 Page Service Drive
St Louis MO 63141
(314) 432-7019

COMPUTER TASK GROUP

Software: Professional Services
800 Delaware Avenue
Buffalo NY 14209
(716) 882-8000

COMPUTER TRANSCEIVER SYSTEMS

Software: Portable Microcomputers
E 66 Midland Ave
PO Box 15
Paramus NJ 07652
(201) 261-6800

THE COMPUTERIST

Hardware: Microcomputers
PO Box 3
34 Chelmsford St
S Chelmsford MA 01824
(617) 256-3649

COMPUTERS INTERNATIONAL

Hardware: Printers
3540 Wilshire Blvd
Los Angeles CA 90010
(213) 386-3111

COMPUTHINK

Hardware: Microcomputers
965 West Maude Ave
Sunnyvale CA 94086
(408) 245-4033

COMPUTING

Software: Utilities
2519 Greenwich Street
San Francisco CA 94123
(415) 567-1634

COMPUTONE SYSTEMS

Software: Investment Services, Professional Services
One Dunwoody Park
Atlanta GA 30338
(404) 393-3010

COMPUTROL

Hardware: Local Area Networks
15 Ethan Allen Hwy
Ridgefield CT 06887-6297
(203) 544-9371

COMPUVIEW PRODUCTS

Software: Word Processing/Text Editing, Utilities, Program Development/Debugging
1955 Pauline Blvd
Suite 300
Ann Arbor MI 48103
(313) 996-1299

COMREX INTERNATIONAL

Hardware: Printers, Display Monitors
3701 Skypark Dr
Suite 120
Torrance CA 90505
(213) 373-0280

COMSHARE

Software: Payroll/Personnel, Decision Support, Data Communications
5901 B Peachtree Dunwoody Rd
Suite 275
Atlanta GA 30328
(404) 391-9012

CONCENTRIC DATA SYSTEMS

Software: Data Base Management
18 Lyman St
Westboro MA 01581
(617) 366-1122

CONCORD DATA SYSTEMS

Hardware: Local Area Networks
303 Bear Hill Rd
Waltham MA 02154
(617) 890-1394

CONDOR COMPUTER

Software: Data Base Management
2051 S State St
Ann Arbor MI 48104
(313) 769-3988

CONSTRUCTION DATA CONTROL

Software: Accounts Payable, General Ledger, Payroll/Personnel, Job Costing, Integrated Accounting, Data Base Management
6140 Northbelt Pkwy
Suite A
Norcross GA 30071
(404) 448-4722

CONTEL INFORMATION SYSTEMS

Software: Data Base Management
Hardware: Local Area Networks
SMALL COMPUTER SYSTEMS GROUP
4330 East-West Hwy
Bethesda MD 20814
(301) 654-9120

CONTEXT MANAGEMENT SYSTEMS

Software: Integrated Applications, Data Communications
23864 Hawthorne Blvd
Suite 101
Torrance CA 90505
(213) 378-8277

CONTINENTAL SOFTWARE

Software: Accounts Payable, Accounts Receivable, General Ledger, Payroll/Personnel
11223 South Hindry Ave
Los Angeles CA 90045
(213) 410-8031

CONTOUR**Software:** Investment Services

4960 Hamilton Ave
San Jose CA 95130
(408) 370-1700

CONTROL DATA**Software:** Desktop Microcomputers**Hardware:** Microcomputers, Local Area Networks

8100 34th Ave S
Minneapolis MN 55440
(612) 853-8100

CONTROL LOGIC**Hardware:** Microcomputers

9 Tech Circle
Natick MA 01760
(617) 655-1170

CONVERGENT TECHNOLOGIES**Software:** Portable Microcomputers

2441 Mission College Blvd
Santa Clara CA 95050
(408) 727-8830

CORNUCOPIA SOFTWARE**Software:** Word Processing/Text Editing

PO Box 6111
Albany CA 94706
(415) 524-8098

CORONA DATA SYSTEMS**Software:** Portable Microcomputers

31324 Via Colinas
Westlake Village CA 91361
(213) 706-1505

CORVUS SYSTEMS**Software:** Desktop Microcomputers**Hardware:** Microcomputers, Winchesters, Local Area Networks

2029 O'Toole Ave
San Jose CA 95131
(408) 946-7700

COSMOPOLITAN ELECTRONICS**Software:** Operating Systems

PO Box 234
Plymouth MI 48170
(313) 668-6660

THE COTTONWOOD COMPANY**Software:** Investment Services

PO Box 45
Walla Walla WA 99362
(509) 522-1143

COVINGTON COMPUTER SALES**Software:** Graphics

970 Montee de Liesse
Suite 201
St Laurent QU H4T 1W7
Canada
(514) 337-0844

CP/M USERS GROUP**Software:** Data Communications

1651 Third Avenue
New York NY 10028
(212) 730-1286

CREATIVE SOLUTIONS**Software:** Program Development/Debugging

4801 Randolph Rd
Rockville MD 20852
(301) 984-0262

CROMEMCO**Software:** Word Processing/Text Editing**Hardware:** Microcomputers, Add-on Memories

PO Box 7400
Mountain View CA 94039
(415) 964-7400

CROSSROADS TECHNOLOGIES**Hardware:** Display Monitors

665 Clyde Ave
Mountain View CA 94043
(415) 961-4054

CYBERIA**Software:** Decision Support, Data Communications

2330 Lincoln Way
Ames IA 50010
(515) 292-7634

CYBERSYSTEMS**Hardware:** Microcomputers

8300 Whitesburg Dr
Huntsville AL 35802
(205) 883-4410

CYMA**Software:** Accounts Payable, Accounts Receivable, General Ledger, Payroll/Personnel, Integrated Accounting, Sales/Distribution, Professional Services

2160 E Brown Rd
Mesa AZ 85203
(602) 835-8880

CYNTHIA PERIPHERAL**Hardware:** Winchesters

3606 W Bayshore Rd
Palo Alto CA 94303
(415) 856-8181

CYPHER COMMUNICATIONS TECHNOLOGY**Software:** Data Communications

Suite 1005
1712 I St NW
Washington DC 20006
(202) 887-0834

DAPI (DATA APPLICATIONS PRODUCTS INTERNATIONAL)**Software:** Data Base Management

Avenue Massenet 25
1190 Bruxelles
Belgium (2) 344 41 04

DARLING & ASSOCIATES**Software:** Investment Services

451 Andover St
N Andover MA 01845
(617) 794-0212

DATA ACCESS**Software:** Data Base Management

4221 Ponce DeLeon Blvd
Coral Gables FL 33146
(305) 446-0669

DATA DEVELOPMENT**Software:** Utilities

1111 Route 46 East
Little Falls NJ 07424
(800) 526-5368
(201) 785-9120

DATA GENERAL**Software:** Accounts Payable, Accounts Receivable, General Ledger, Payroll/Personnel, Sales/Distribution, Desktop Microcomputers**Hardware:** Microcomputers, Winchesters, Local Area Networks

4400 Computer Dr
Westboro MA 01580
(617) 366-8911

DATA IMPACT PRINTERS**Hardware:** Printers

745 Atlantic Ave
Boston MA 02111
(617) 482-5266

DATA TERMINAL SYSTEMS**Hardware:** Microcomputers

124 Acton St
Maynard MA 01754
(617) 897-3221

DATAMAC COMPUTER SYSTEMS**Hardware:** Add-on Memories

680 Almanor Ave
Sunnyvale CA 94086
(408) 735-0323

DATAMARK BUSINESS SYSTEMS

Software: Data Communications
279 S McKnight Rd
St Paul MN 55119
(612) 738-9111

DATAMED RESEARCH

Software: Word Processing/Text Editing, Languages
1433 Roscomore Rd
Los Angeles CA 90077
(213) 472-8825

DATAMEDIA

Software: Multiuser Microcomputers, Desktop Microcomputers
Hardware: Microcomputers
7401 Central Highway
Pennsauken NJ 08109
(609) 665-5400

DATAMENSION

Software: Decision Support
615 Academy Dr
Northbrook IL 60062
(312) 564-5060

DATAMOST

Software: Word Processing/Text Editing
20660 Nordhoff St
Chatsworth CA 91311
(213) 709-1202

DATAPOINT

Software: Desktop Microcomputers
Hardware: Microcomputers, Modems, Local Area Networks
9725 Datapoint Dr
San Antonio TX 78284
(512) 699-7552

DATAPORT

Hardware: Printers
COMPUTER PRODUCTS
5525 Olinda Rd
Bldg A
El Sobrante CA 94803
(415) 223-3658

DATAPRODUCTS

Hardware: Printers
6200 Canoga Ave
PO Box 746 MS 2032
Woodland Hills CA 91365
(213) 887-8000

DATARAM

Hardware: Winchester
Princeton Rd
Cranbury NJ 08512
(609) 799-0071

DATASOFT

Software: Graphics
19808 Nordhoff Pl
Chatsworth CA 91311
(213) 701-5161

DATATEK

Software: Word Processing/Text Editing
280 Railroad Ave
Greenwich CT 06830
(203) 625-0098

DATATRONIX

Hardware: Modems
2100 Reston Ave
Reston VA 22091
(703) 620-5300

DATAVUE

Hardware: Microcomputers
1911 22nd Ave S
Seattle WA 98144
(206) 322-9330

DATEC

Hardware: Modems
200 Eastowne Dr
Suite 116
Chapel Hill NC 27514
(919) 929-2135

DATRICON

Hardware: Microcomputers
155 "B" Ave
Lake Oswego OR 97034
(503) 636-7671

DAVONG SYSTEMS

Hardware: Add-on Memories
1061 Terra Bella Ave
Mountain View CA 94043
(415) 965-7130

DAVOX

Hardware: Local Area Networks
6 Continental Blvd
Merrimack NH 03054
(603) 424-4500

DAY ONE SOFTWARE

Software: Data Base Management
618 Shoemaker Rd
King of Prussia PA 19406
(215) 337-8255

DBS INTERNATIONAL

Software: Multiuser Microcomputers
Hardware: Local Area Networks
Welsh Rd Park Dr
Montgomeryville PA 18936
(215) 628-4810

DECISION RESOURCES

Software: Graphics
25 Sylvan Rd S
Westport CT 06880
(203) 222-1974

DELTA DATA SYSTEMS

Hardware: Microcomputers
2595 Metropolitan Dr
Trevose PA 19047
(215) 322-5400

THE DENVER SOFTWARE COMPANY

Software: Integrated Accounting
14100 E Jewell Ave
Suite 15
Aurora CO 80012
(303) 750-9980

DESIGNERS & BUILDERS OF INFORMATION SYSTEMS (DBIS)

Software: Accounts Payable, Accounts Receivable, Payroll/Personnel, Sales/Distribution, Professional Services, Data Base Management
One Mayfair Rd
Eastchester NY 10707
(914) 632-2816

DESKTOP COMPUTER SOFTWARE

Software: Decision Support
75 Pasatiempo Dr
Santa Cruz CA 95060
(408) 458-9095

DESKTOP SOFTWARE

Software: Program Development/Debugging
228 Alexander St
Princeton NJ 08540
(609) 924-7111

DESTEK

Hardware: Local Area Networks
830 E Evelyn Ave
Suite C
Sunnyvale CA 94086
(415) 968-4593

DIABLO SYSTEMS

Hardware: Printers
901 Page Ave
PO Box 5030
Freemont CA 94537
(415) 498-7000

DICKENS DATA SYSTEMS

Software: Graphics
3050 Holcomb Bridge Rd
Suite A
Norcross GA 30071
(800) 241-6753
(404) 491-7905

DIGICOMP RESEARCH**Hardware:** Microcomputers, Add-on MemoriesTerrace Hill
Ithaca NY 14850
(607) 273-5900**DIGILOG BUSINESS SYSTEMS****Software:** Multiuser Microcomputers**Hardware:** MicrocomputersWelsh Rd & Park Dr
PO Box 355
Montgomeryville PA 18936
(215) 628-4810**DIGITAL DESIGN & DEVELOPMENT****Hardware:** MicrocomputersPO Box 225
Stone St Industrial Park
Walpole MA 02081
(617) 668-1090**DIGITAL EQUIPMENT****Software:** Multiuser Microcomputers, Desktop Microcomputers**Hardware:** Microcomputers, Winchesters, Local Area Networks146 Main Street
Maynard MA 01754
(617) 897-5111**DIGITAL LABORATORIES****Hardware:** Microcomputers600 Pleasant St
Watertown MA 02172
(617) 924-1680**DIGITAL MARKETING****Software:** Professional Services, Word Processing/Text Editing, Data Base Management, Data Communications, Utilities2363 Boulevard Circle
Walnut Creek CA 94595
(800) 826-2222
(415) 947-1000**DIGITAL MICROSYSTEMS****Software:** Manufacturing**Hardware:** Microcomputers1840 Embarcadero
Oakland CA 94606
(415) 532-3686**DIGITAL RESEARCH****Software:** Graphics, Operating Systems, Utilities, LanguagesPO Box 579
Pacific Grove CA 93950
(408) 649-3896**DIGITAL VISIONS****Software:** Graphics454 W 46th St
New York NY 10036
(212) 246-1228**DIRECT AID****Software:** Professional Services695-C S Broadway
Boulder CO 80303
(303) 494-8265**DISPLAY DATA****Hardware:** MicrocomputersExecutive Plaza IV
Hunt Valley MD 21031
(301) 667-9211**DISTRIBUTED COMPUTER SYSTEMS****Hardware:** Microcomputers223 Crescent St
Waltham MA 02154
(617) 899-6619**DISTRIBUTION SCIENCES****Software:** Sales/Distribution1350 E Touhy Ave
Des Plaines IL 60018
(312) 635-0200**DMA SYSTEMS****Hardware:** Winchesters601 Pine Ave
Goleta CA 93117
(805) 683-3811**DOTRONIX****Hardware:** Display Monitors160 1st St SE
New Brighton MN 55112
(612) 633-1742**DOW JONES SOFTWARE****Software:** Investment Services, Data CommunicationsPO Box 300
Princeton NJ 08540
(800) 257-5114**DP-TEK****Hardware:** PrintersPO Box 2411
Whichita KS 67201
(316) 681-0976**DUAL SYSTEMS****Hardware:** Microcomputers, Add-on Memories2530 San Pablo Ave
Berkeley CA 94702
(415) 549-3854**DURANGO SYSTEMS****Hardware:** Microcomputers3003 N First St
San Jose CA 95134
(408) 946-5000**DYMEK CORP****Software:** Utilities1851 Zanker Rd
San Jose CA 95112
(408) 947-8700**DYNABYTE****Software:** Multiuser Microcomputers**Hardware:** Microcomputers521 Cottonwood Dr
Milpitas CA 95035
(408) 263-1221**DYNAMIC MICROPROCESSOR ASSOCIATES****Software:** Integrated Accounting, Data Communications, Utilities545 Fifth Avenue
New York NY 10017
(212) 687-7115**DYNATEM****Hardware:** Microcomputers22600 D Lambert St
Suite 1007
El Toro CA 92630
(714) 855-3235**E&L INSTRUMENTS****Hardware:** Microcomputers61 First St
Derby CT 06418
(203) 735-8774**E&U ENGEL CONSULTING****Hardware:** Microcomputers1719 S Carmelina Ave
Los Angeles CA 90025
(213) 820-4231**EAGLE COMPUTER****Software:** Desktop Microcomputers, Portable Microcomputers**Hardware:** Microcomputers983 University Ave
Los Gatos CA 95030
(408) 395-5005**EAGLE ENTERPRISES****Software:** General Ledger, Data Base Management2375 Bush St
San Francisco CA 94115
(415) 346-1249

EAGLE SOFTWARE PUBLISHING**Software:** Investment Services

993 Old Eagle School Road
Wayne PA 19087
(215) 964-8660

ECOM ASSOCIATES**Software:** Engineering/Scientific

8634 W Brown Deer Road
Milwaukee WI 53224
(414) 354-0243

ECOSOFT**Software:** Engineering/Scientific

PO Box 68602
Indianapolis IN 46268
(317) 255-6476

ECS MICROSYSTEMS**Hardware:** Microcomputers

215 Devcon Dr
San Jose CA 95112
(408) 286-4200

EEC SYSTEMS**Software:** Word Processing/Text Editing

327 E Boston Post Rd
Sudbury MA 01776
(617) 443-5106

EINSTEIN**Software:** Word Processing/Text Editing, Languages

11340 W Olympic Blvd
Los Angeles CA 90064
(213) 477-4539

ELECTROHOME LTD**Hardware:** Display Monitors

809 Wellington St N
Kitchener
Ontario CD N 2G 4S6
Telephone: 519-744-7111

ELLIS COMPUTING**Software:** Languages

3917 Noriega St
San Francisco CA 94122
(415) 753-0186

EMERGING TECHNOLOGY CONSULTANTS**Software:** Integrated Applications, Word Processing/Text Editing

2031 Broadway
Boulder CO 80302
(303) 447-9495

ENERTRONICS RESEARCH**Software:** Graphics

150 N Meramec
Suite 207
St Louis MO 63105
(314) 725-5566

ENTEK SCIENTIFIC**Software:** Engineering/Scientific

4480 Lake Forest Drive
Suite 316
Cincinnati OH 45242
(513) 563-7500

ENTER COMPUTER**Software:** Graphics

6867 Nancy Ridge Dr
San Diego CA 92121
(619) 450-0601

ENTERPRISE COMPUTER SYSTEM**Software:** Professional Services

815 S Main Suite G-16
PO Box 10156
Jacksonville FL 32207
(904) 399-3899

EPIC COMPUTER PRODUCTS**Hardware:** Microcomputers

10725 Ellis
Suite B
Fountain Valley CA 92708
(714) 963-7898

EPS**Software:** Decision Support

1788 Technology Dr
San Jose CA 95110
(408) 292-6212

EPSON AMERICA**Software:** Desktop Microcomputers, Portable Microcomputers**Hardware:** Microcomputers, Printers

3415 Kashiwa St
Torrance CA 90505
(213) 539-9140

ERICSSON**Software:** Desktop Microcomputers

INFORMATION SYSTEMS AB
S-581 01 Linköping
Sweden +46 (13) 11 70 00

ERREX**Software:** Utilities

5 Research Dr
Ann Arbor MI 48103
(313) 996-8666

ESCAPE COMPUTER SOFTWARE**Software:** Graphics

PO Box 1771
Roswell GA 30075
(404) 971-5349

ESP COMPUTER RESOURCES**Software:** Data Base Management

9 Ash Street
Hollis NH 03049
(603) 465-7264

EUROPEAN AMERICAN BANK**Software:** Investment Services

10 Hanover Square
New York NY 10015
(212) 437-4300

EVENTIDE**Hardware:** Add-on Memories

265 W 54th St
New York NY 10019
(212) 581-9290

EXCALIBUR TECHNOLOGIES**Software:** Languages

800 Rio Grande Blvd
Mercado 21
Albuquerque NM 87104
(505) 242-3333

EXCELAN**Hardware:** Local Area Networks

2180 Fortune Dr
San Jose CA 95131
(408) 945-9526

EXECUCOM SYSTEMS**Software:** Decision Support

3410 Far West Blvd
Austin TX 78731
(512) 346-4980

EXECUTEC**Software:** Decision Support, Integrated Applications, Investment Services

12200 Park Central Dr
Suite 470
Dallas TX 75251
(214) 239-8080

EXECUTIVE SOFTWARE**Software:** Decision Support

Bay St
Shanty Bay
Ont L0L2L0 Canada
Telephone: 705-722-3373

EXECUWARE**Software:** Professional Services, Program Development/Debugging

7415 Pineville-Matthews Rd
Charlotte NC 28226
(704) 541-1199

EXIDY**Hardware:** Microcomputers

390 Java Dr
Sunnyvale CA 94086
(408) 734-9410

FACIT**Hardware:** Printers

DATA PRODUCTS DIV
235 Main Dunstable Rd
CSN 2020
Nashua NH 03061
(603) 883-4157

FARMLAND COMPUTER SYSTEMS**Software:** Professional Services

900 S Winchester
Suite 10
San Jose CA 95128
(408) 554-0708

FEITH SYSTEMS AND SOFTWARE**Software:** Accounts Payable, Accounts Receivable, General Ledger, Payroll/Personnel, Job Costing, Sales/Distribution, Professional Services, Manufacturing

1 Bala Plaza
Suite E 133
Bala Cynwyd PA 19004
(215) 667-5575

FEROX MICROSYSTEMS**Software:** Decision Support, Graphics, Data Communications

1701 N Ft Myer Dr
Suite 611
Arlington VA 22209
(703) 841-0800

FERRANTI COMPUTER SYSTEMS LTD**Hardware:** Microcomputers

Simonsway, Wythenshawe
Manchester
England M22 5LA
Telephone: 061-499-3355

FINANCIAL SYSTEMS**Software:** Investment Services

PO Box 2012
Kearney NE 68847
(308) 237-5995

FINANCIAL TECHNOLOGY**Software:** Investment Services

612 N Michigan Ave
Chicago IL 60611
(312) 280-0600

FINSER**Software:** Investment Services

8546 Broadway
Building A Suite D
San Antonio TX 78217
(512) 821-6534

FIRST SOFTWARE**Software:** Data Communications

5622 E Presidio
Scottsdale AZ 85254
(602) 953-1208

FISHER BUSINESS SYSTEMS**Software:** Accounts Payable, Accounts Receivable

3260 Powers Ferry Rd
Suite A-200
Atlanta GA 30067
(404) 953-1717

FLEXWARE**Software:** Program Development/Debugging

15404 E Valley Blvd
Industry CA 91746
(213) 961-0237

FLORIDA STATE UNIVERSITY**Software:** Utilities

Computing Center
402 Education Bldg
Tallahassee FL 32306
(904) 644-2764

FORETHOUGHT PRODUCTS**Hardware:** Microcomputers, Add-on Memories

87070 Dukhobar Rd
Eugene OR 97402
(503) 485-8575

FORTH**Software:** Operating Systems

2309 Pacific Coast Hwy
Hermosa Beach CA 90254
(213) 372-8493

FORTUNE SYSTEMS**Software:** Multiuser Microcomputers**Hardware:** Microcomputers

1501 Industrial Rd
San Carlos CA 94070
(415) 595-8444

FOX & GELLER**Software:** Graphics, Program Development/Debugging

PO Box 1053
Teaneck NJ 07666
(201) 837-0142

FRANKLIN COMPUTER**Software:** Desktop Microcomputers, Portable Microcomputers**Hardware:** Microcomputers, Diskettes

1070 Busch Memorial Hwy
Pennsauken NJ 08110
(609) 488-0600

FRONTIER SOFTWARE**Software:** General Ledger, Utilities

756 Bowling Green
Cortland NY 13045
(607) 756-8247

FUJITSU SYSTEMS OF AMERICA**Software:** Desktop Microcomputers**Hardware:** Microcomputers, Winchesters, Printers

3320 Scott Blvd
Santa Clara CA 95051
(408) 980-0755

FUTURE COMPUTERS LTD**Software:** Multiuser Microcomputers**Hardware:** Microcomputers

PO Box 306
Purley, Surrey
England
Telephone: 01-689-4341

GANDALF DATA**Hardware:** Modems, Local Area Networks

1019 S Noel Ave
Wheeling IL 60090-5875
(312) 541-6060

GENERAL DATACOMM INDUSTRIES**Hardware:** Modems

One Kennedy Ave
Danbury CT 06810
(203) 797-0711

GENERAL DIGITAL INDUSTRIES**Hardware:** Microcomputers

500 Wynn Dr
Huntville AL 35805
(205) 837-8305

GENERAL INSTRUMENT**Hardware:** Local Area Networks

R F SYSTEMS DIV
4229 S Fremont
Tucson AZ 85714
(612) 294-1600

GENERAL MICRO SYSTEMS**Software:** Data Communications

7525 Mitchell Rd
Suite 101
Minneapolis MN 55344
(612) 937-9194

GENERAL ROBOTICS

Hardware: Add-on Memories
57 N Main St
Hartford WI 53027
(414) 673-6800

GENIGRAPHICS

Software: Graphics
PO Box 591
Liverpool NY 13088
(315) 451-6600

GEOCOMP

Software: Graphics
342 Sudbury Rd
Concord MA 01742
(617) 369-8304

GEOGRAPHIX

Software: Graphics
156 N Third St
Philadelphia PA 19106
(215) 925-6690

BERNARD GIFFLER ASSOCIATES

Software: Manufacturing
34 Linda Lane
Warrington PA 18976
(215) 343-3345

GIFFORD COMPUTER SYSTEMS

Hardware: Microcomputers
1922 Republic Ave
San Leandro CA 94577
(415) 895-0798

GIGATEK LTD

Hardware: Display Monitors
140 Linchdean Sq Unit 15
Canada M1X 1B1
Telephone: 416-292-8329

GIMIX

Hardware: Microcomputers
1337 W 37 Place
Chicago IL 60609
(312) 927-5510

GMS SYSTEMS

Software: Data Base Management
12 W 37th St
New York NY 10018
(212) 947-3590

GOLDEN STATE BUSINESS SYSTEMS

Software: Engineering/Scientific
1910 P Street
Sacramento CA 95814
(916) 441-2917

GOULD

Hardware: Local Area Networks
19050 Pruneridge Ave
Cupertino CA 95014
(408) 996-9109

GRAPHIC COMMUNICATIONS

Software: Graphics
200 Fifth Ave
Waltham MA 02254
(617) 890-8778

GRAPHIC SOFTWARE SYSTEMS

Software: Engineering/Scientific, Graphics
25117 SW Parkway
PO Box 673
Wilsonville OR 97070
(503) 682-1606

GRAPHICON SOFTWARE

Software: Integrated Applications
399 Sherman Ave
Suite 10
Palo Alto CA 94306
(415) 329-1791

GRAPHWARE

Software: Graphics
5084 Mosiman Rd
Middletown OH 45042
(513) 424-6733

GREAT PLAINS SOFTWARE

Software: Integrated Accounting
123 N 15th
 Fargo ND 58102
(701) 293-8483

GRID SYSTEMS

Software: Portable Microcomputers
Hardware: Microcomputers
2535 Garcia Ave
Mountain View CA 94043
(415) 961-4800

GROUNDSTAR SOFTWARE

Software: Accounts Payable, Accounts Receivable,
General Ledger, Payroll/Personnel, Integrated
Accounting, Sales/Distribution, Decision
Support
2160 41st Ave
Suite 206
Capitola CA 95010
(408) 462-5250

GRUNDY BUSINESS SYSTEMS LTD

Hardware: Microcomputers
Grundy House
Somerset Rd
Teddington, Middlesex
England TW11 8TD
Telephone: 01-977-1171

GTCO

Software: Graphics
1055 First St
Rockville MD 20850
(301) 279-9550

GTE LENKURT

Hardware: Modems
1105 County Rd
San Carlos CA 94070
(415) 595-3000

H&H SCIENTIFIC

Software: Investment Services
13507 Pendleton St
Fort Washington MD 20744
(301) 292-2958

HABA SYSTEMS

Software: Decision Support
15154 Stagg St
Van Nuys CA 91405
(213) 901-8828

HARVARD SOFTWARE

Software: Job Costing
Harvard MA 01451
(617) 456-3400

EF HASKELL & ASSOCIATES

Software: Integrated Accounting, Professional Services
1528 E Missouri
Suite A131
Phoenix AZ 85014
(602) 277-2534

HAWKEYE GRAFIX

Software: Data Communications
23914 Mobile St
Canoga Park CA 91307
(213) 348-7909

HAYDEN SOFTWARE

Software: Accounts Payable, Accounts Receivable,
General Ledger, Payroll/Personnel,
Sales/Distribution, Word Processing/Text
Editing, Program Development/Debugging
600 Suffolk
Lowell MA 01853
(617) 937-0200
(800) 343-1218

HAYES MICROCOMPUTER PRODUCTS

Software: Data Base Management, Data
Communications
Hardware: Modems
5835 Peachtree Corners E
Norcross GA 30092
(404) 449-8791

THE HEADLANDS PRESS

Software: Data Communications
PO Box 862
Tiburon CA 94920
(415) 435-9775

HECON**Hardware:** Printers

PO Box 247
31 Park Road
Tinton Falls NJ 07724
(201) 542-9200

HERITAGE HOLDINGS**Software:** Accounts Payable, Accounts Receivable, General Ledger, Payroll/Personnel

611 Anton Blvd
Suite 720
Costa Mesa CA 92626
(714) 662-6999

HEURIKON**Hardware:** Add-on Memories

3001 Latham Dr
Madison WI 53713
(608) 271-8700

HEWLETT-PACKARD**Software:** Investment Services, Engineering/Scientific, Desktop Microcomputers, Portable Microcomputers**Hardware:** Microcomputers, Winchesters, Diskettes, Printers, Modems

1507 Page Mill Rd
Palo Alto CA 94304
(415) 856-1501

HFK SOFTWARE**Software:** Word Processing/Text Editing

Old Danbury Rd
PO Box 150
Danbury NH 03230
(617) 259-0059

HIGH TECHNOLOGY SOFTWARE PRODUCTS**Software:** Manufacturing

PO Box 60406
1611 NW 23rd St
Oklahoma City OK 73146
(405) 524-4359

HIGLEY & CO**Software:** Payroll/Personnel

PO Box 451
Mentor OH 44060
(216) 946-5359

HILDERBAY LTD**Software:** Payroll/Personnel

8-10 Parkway, Regents Park
London
London NW1 7AA
Telephone: 01-485-1059

HITACHI AMERICA**Hardware:** Winchesters

950 Elm Ave
San Bruno CA 94066
(415) 872-1902

HOLLIDAY SOFTWARE**Software:** Data Base Management, Utilities

4807 Arlene Street
San Diego CA 92117
(619) 292-7766

HONEYWELL INFORMATION SYSTEMS**Software:** Multiuser Microcomputers, Desktop Microcomputers**Hardware:** Microcomputers

200 Smith St
Waltham MA 02154
(617) 895-3658

HORIZON SOFTWARE SYSTEMS**Software:** Word Processing/Text Editing

185 Berry St
San Francisco CA 94107
(415) 543-1199

HOWARD SOFTWARE SERVICES**Software:** Professional Services

8008 Girard Avenue
Suite 310
La Jolla CA 92037
(619) 454-0121

HOYLE & HOYLE SOFTWARE**Software:** Data Base Management

716 S Elam Ave
Greensboro NC 27403
(919) 378-1050

M HUDIS & ASSOCIATES**Software:** Engineering/Scientific

2360 Professional Drive
Santa Rosa CA 95401
(707) 542-8795

HUMAN EDGE SOFTWARE**Software:** Professional Services

2445 Faber Pl
Palo Alto CA 94303
(415) 493-1593

HUMAN ENGINEERED SOFTWARE**Software:** Word Processing/Text Editing

71 Park La
Brisbane CA 94005
(415) 468-4110

HUMAN SYSTEMS DYNAMICS**Software:** Graphics

9249 Reseda Blvd Suite 107
Northridge CA 91324
(213) 993-8536

HUNTER & READY**Software:** Operating Systems

445 Sherman Ave
Palo Alto CA 94306
(415) 326-2950

HYPERGRAPHICS**Software:** Graphics

100 N Central Expressway
Suite 1208
Richardson TX 75080
(214) 690-3000

IBM**Software:** Operating Systems, Data Communications, Desktop Microcomputers, Portable Microcomputers**Hardware:** Microcomputers, Local Area Networks

1133 Westchester Ave
White Plains NY 10604
(914) 696-1900

ICL COMPUTERS**Software:** Multiuser Microcomputers, Desktop Microcomputers**Hardware:** Microcomputers

North American Operation
415 E Airport Freeway
Irving TX 75062
(214) 258-8525

ICOT**Hardware:** Modems

830 Maude Ave
Mountain View CA 94043
(415) 964-4635

ICR FUTURESOF**Software:** Program Development/Debugging

P O Box 1446-DM1
Orange Park FL 32073
(800) 824-7888

IDE ASSOCIATES**Hardware:** Add-on Memories

44 Mall Rd
Burlington MA 01803
(617) 272-7360

IDEAWARE**Software:** Decision Support

225 Lafayette St
Suite 712
New York NY 10012
(212) 334-8043

IE SYSTEMS**Software:** Data Communications

98 Main St
Newmarket NH 03857
(603) 659-5891

IJG

Software: Word Processing/Text Editing
1953 W 11th St
Upland CA 91768
(714) 946-5805
(714) 982-7829

IKEGAMI ELECTRONICS USA

Hardware: Display Monitors
37 Brook Ave
Maywood NJ 07607
(201) 368-9171

IMS INTERNATIONAL

Hardware: Microcomputers
2800 Lockheed Way
Carson City NV 89701
(702) 883-7611

IMSI SOFTWARE PUBLISHERS

Software: Graphics
633 5th Ave
San Rafael CA 94901
(415) 545-7101

INCOM SYSTEMS

Software: Professional Services
9515 Sandpoint Way NE
Seattle WA 98115
(206) 527-8895

INDEX TECHNOLOGY CORP (INTECH)

Software: Program Development/Debugging
5 Cambridge Center
Cambridge MA 02142
(617) 491-7380

INFO DESIGNS

Software: Accounts Payable, Accounts Receivable,
General Ledger, Payroll/Personnel
6905 Telegraph Rd
Birmingham MI 48010
(313) 540-4010

INFO-PROS

Software: Data Base Management
2102 Business Center Dr
Irvine CA 92715
(714) 851-8975

INFORMATION & SYSTEMS RESEARCH

Software: Program Development/Debugging
Airport Office Park Building 1
410 Rouser Rd
Coraopolis PA 15108
(412) 262-5507
Telex: 81239

INFORMATION ACCESS

Software: Decision Support
1932 Ferndale Pl
Thousand Oaks CA 91360
(805) 492-6257

INFORMATION BUILDERS

Software: Data Base Management, Data
Communications
1250 Broadway
New York NY 10001
(212) 736-4433

INFORMATION MARKETING BUSINESS LTD

Software: Payroll/Personnel
877 Beacon St
Boston MA 02215
(617) 424-1115

INFORMATION NETWORK SYSTEMS

Software: Professional Services
PO Box 2011
Warminster PA 18974
(215) 364-8220

INFORMATION PEOPLE

Software: Program Development/Debugging
443 Hudson Ave
Newark OH 43055
(614) 349-8644

INFORMATION UNLIMITED SOFTWARE (IUS)

Software: Accounts Payable, Accounts Receivable,
General Ledger, Payroll/Personnel, Integrated
Accounting, Sales/Distribution, Word
Processing/Text Editing, Data Base
Management
2401 Marinship Way
Sausalito CA 94965
(415) 331-6700

INFOTECs

Hardware: Microcomputers
One Perimeter Rd
Manchester NH 03103
(603) 624-2700

INFOTEK

Hardware: Diskettes, Add-on Memories
1400 N Baxter St
Anaheim CA 92806
(714) 956-9300

INFOTRON SYSTEMS

Hardware: Modems, Local Area Networks
Cherry Hill Industrial Center
Cherry Hill NJ 08003
(609) 424-9400

INFOWARE

Software: Investment Services
2407 12th Ave S
Nashville TN 37204
(615) 385-1515

INNER LOOP SOFTWARE

Software: Data Communications, Utilities
5456 McConnell Ave
Suite 120
Los Angeles CA 90066
(213) 822-2800

INNOVATIVE SOFTWARE

Software: Graphics, Data Base Management
9300 W 110th St
Suite 380
Overland Park KS 66210
(913) 383-1089

INNOVATIVE SOFTWARE ASSOCIATES

Software: Professional Services
80 Wall Street
New York NY 10005
(212) 422-5186

INSOFT

Software: Integrated Accounting, Data Base
Management, Languages
10175 SW Barbur Blvd
Suite 202B
Portland OR 97219
(503) 244-4181

INSTANT SOFTWARE

Software: Decision Support
Peterborough NH 03458
(603) 924-9471

INSTITUTE FOR SCIENTIFIC INFORMATION

Software: Data Base Management
3501 Market St
Philadelphia PA 19104
(215) 386-0100

INSTRUMENTATION LABORATORY

Software: Multiuser Microcomputers
Hardware: Microcomputers
PIXEL DIV
One Burrill Rd
Andover MA 01810
(617) 657-8720

INTECOLOR

Software: Word Processing/Text Editing
Hardware: Microcomputers

DIV OF INTELLIGENT SYSTEMS
225 Technology Pk
Norcross GA 30092
(404) 449-5961

INTEGRATED BUSINESS COMPUTERS

Hardware: Microcomputers
22010 S Wilmington Ave
No 306
Carson CA 90745
(213) 518-4245

INTEGRATED MANAGEMENT SERVICES

Software: Investment Services
500 S Main St
Orange CA 92668
(714) 558-7128

INTEGREX

Hardware: Printers
233 N Juniper St
Philadelphia PA 19107
(215) 568-9681

INTEL

Software: Operating Systems, Multiuser Microcomputers
Hardware: Microcomputers
3065 Bowers
Santa Clara CA 95051
(408) 987-8086

INTELLIGENT TECHNOLOGIES

Software: Data Communications
151 University Ave
Palo Alto CA 94301
(415) 328-2411

INTELSOFT

Software: Word Processing/Text Editing
1259 El Camino Real #164
Menlo Park CA 94025
(415) 854-2777

INTERACTIVE PICTURE SYSTEMS

Software: Graphics
270 Park Ave South
New York NY 10010
(212) 475-7053

INTERACTIVE SYSTEMS

Software: Decision Support
2432 W Peoria Ave
Suite 1282-B
Phoenix AZ 85029
(602) 993-3579

INTERACTIVE SYSTEMS TECHNOLOGY

Hardware: Microcomputers
5259 N Tacoma Ave
Suite 11
Indianapolis IN 46220
(317) 253-5760

INTERACTIVE SYSTEMS/3M

Hardware: Local Area Networks
3980 Varisty Dr
Ann Arbor MI 48104
(313) 973-1500

INTERNATIONAL DATA PROCESSING

Software: Investment Services
76 Floral Ave
Murray Hill NJ 07974
(201) 464-6009

INTERNATIONAL MARKET RESOURCES

Software: Sales/Distribution
38 Garden Rd
Wellesley MA 02161
(617) 235-8830

INTERNATIONAL MEMORIES

Hardware: Winchesters
10381 Bandle Dr
Cupertino CA 95014
(408) 446-9779

INTERNATIONAL MICRO SYSTEMS (IMS)

Software: Accounts Payable, Accounts Receivable, General Ledger, Payroll/Personnel, Job Costing, Integrated Accounting, Sales/Distribution, Professional Services
6445 Metcalf
Shawnee Mission KS 66202
(913) 677-1137

INTERNATIONAL SOFTWARE ALLIANCE

Software: Graphics, Word Processing/Text Editing, Data Base Management, Data Communications
1835 Mission Ridge Rd
Santa Barbara CA 93101
(805) 966-3077

INTERSIL SYSTEMS

Hardware: Local Area Networks
1275 Hammerwood Ave
Sunnyvale CA 94086
(408) 743-4300

G. E. INTERSIL SYSTEMS

Hardware: Add-on Memories
1275 Hammerwood Ave
Sunnyvale CA 94086
(408) 743-4442

INTERTEC DATA SYSTEMS

Software: Multiuser Microcomputers, Desktop Microcomputers
Hardware: Microcomputers, Local Area Networks
2300 Broad River Rd
Columbia SC 29210
(803) 798-9100

INTERTECHNIQUE

Software: Multiuser Microcomputers
Hardware: Microcomputers
78370 Plaisir
France
Telephone: (3)055.82.00

THE IPAC GROUP

Hardware: Microcomputers
PO Box 156
3047 Industrial Ave
Bethel Park PA 15102
(412) 831-9200

ISE

Software: Languages
350 W Sagamore Pkwy
West Lafayette IN 47906
(317) 463-4561

ISI INTERNATIONAL

Hardware: Display Monitors
1275 Hammerwood Ave
Sunnyvale CA 94089
(408) 743-4300

ISYS

Software: Investment Services
PO Box 214
Cambridge MA 02238
(617) 491-6221

ITHACA INTERSYSTEMS

Hardware: Microcomputers, Add-on Memories
1650 Hanshaw Rd
Ithaca NY 14850
(607) 257-0190

C. ITOH ELECTRONICS

Hardware: Printers
5301 Beethoven St
Los Angeles CA 90066
(213) 306-6700

ITSOFTWARE

Software: Decision Support, Word Processing/Text Editing, Data Base Management, Utilities
PO Box 2392
Princeton NJ 08540
(800) 222-0592
(609) 799-2600

ITT

Software: Desktop Microcomputers
2041 Lundy Ave
San Jose CA 95131
(408) 945-8950

ITT COURIER TERMINAL SYSTEMS

Hardware: Printers
PO Box 20939
Phoenix AZ 85038
(602) 894-7000

JEB SYSTEMS

Software: Professional Services
57 Main St
Franconia NH 03580
(603) 823-5587

JERSEY MICRO SYSTEMS

Software: Integrated Accounting, Professional Services
1200B Haddonfield Road
Cherry Hill NJ 08002
(609) 665-7611

JINI MICRO-SYSTEMS

Software: Data Base Management
Box 274
Bronx NY 10463
(212) 796-6200

JOHNSON ASSOCIATES SOFTWARE

Software: Utilities
PO Box 3069
Redding CA 96049-3069
(916) 221-0740

JONOS

Software: Portable Microcomputers
1835 Dawns Way
Fullerton CA 92631
(714) 999-6661

KAYCOMP COMPUTERS

Hardware: Microcomputers
533 Stevens Ave
Solana Beach CA 92075
(714) 755-1134

KAYPRO

Software: Languages, Portable Microcomputers
PO Box N
Del Mar CA 92014
(619) 481-4300

KELIX SOFTWARE SYSTEMS

Software: Engineering/Scientific
425 Deventry Drive
Baton Rouge LA 70808
(504) 769-6785

KENSINGTON MICROWARE

Software: Word Processing/Text Editing
251 Park Ave South
New York NY 10010
(212) 475-5200

KEUFFEL & ESSER

Hardware: Microcomputers
7816 Jones Maltsberger Rd
San Antonio TX 78216
(512) 822-4232

KEY SOFTWARE

Software: Data Base Management
2350 E Devon Ave
Des Plaines IL 60018
(312) 298-3610

KEY SOLUTIONS

Software: Program Development/Debugging
PO Box 2297
Santa Clara CA 95055
(408) 554-6125

KEY SYSTEMS

Software: Manufacturing
PO Box 1319
Marathon FL 33050
(305) 743-7400

L & L PRODUCTS

Software: Decision Support
P O Box A-57
Hanover NH 03755
(603) 643-4503

LABORATORY MICROSYSTEMS

Software: Languages
4147 Beethoven St
Los Angeles CA 90066
(213) 306-7412

LAND INNOVATION

Software: Engineering/Scientific
PO Box 50662
Dallas TX 75250-0662
(414) 354-0243

LANIER BUSINESS PRODUCTS

Software: Desktop Microcomputers
Hardware: Local Area Networks
1700 Chantilly Dr
Atlanta GA 30324
(404) 329-8000

LEADING EDGE PRODUCTS

Software: Word Processing/Text Editing
Hardware: Printers
225 Turnpike St
Canton MA 02021
(800) 343-6833
(617) 828-8150

LED SYSTEMS

Hardware: Local Area Networks
1006 Apache Trail
Mechanicsburg PA 17055
(717) 687-2607

LEXISOFT

Software: Word Processing/Text Editing
PO Box 267
Davis CA 95616
(916) 758-3630

LIFEBOAT ASSOCIATES

Software: Engineering/Scientific, Word Processing/Text Editing, Operating Systems, Languages
1651 Third Avenue
New York NY 10028
(212) 860-0300

LIFETREE SOFTWARE

Software: Word Processing/Text Editing
411 Pacific St
Suite 315
Monterey CA 93940
(408) 373-4718

LINBERGH SYSTEMS

Software: Data Communications
41 Fairhill Rd
Holden MA 01520
(617) 852-0233

LINK SYSTEMS

Software: Data Communications
1640 19th Street
Santa Monica CA 90404
(213) 453-1851

LITTLEWOOD, SHAIN & CO

Software: Investment Services
175 Strafford Ave
Wayne PA 19087
(800) 345-1245 215-687-5467

LIVING VIDEOTEXT

Software: Decision Support
1000 Elwell Court
Suite 232
Palo Alto CA 94303
(415) 964-6300

LJK ENTERPRISES

Software: Data Base Management
PO Box 10827
St Louis MO 63129
(314) 962-1855

LNW COMPUTERS

Hardware: Microcomputers
2620 Walnut Ave
Tustin CA 92680
(714) 544-5744

LOGICA

Software: Data Communications
666 Third Ave 19th Floor
New York NY 10017
(212) 599-0828

LOGICAL SOFTWARE

Software: Data Base Management
55 Wheeler St
Cambridge MA 02138
(617) 864-0137

LOGICAL SYSTEMS

Software: Operating Systems, Utilities
8970 N 55th St
P O Box 23956
Milwaukee WI 53223
(414) 355-5454

LOTUS DEVELOPMENT

Software: Integrated Applications
161 First St
Cambridge MA 02142
(617) 492-7171

LOVELLS

Software: Data Communications
4205 Biltmore
Corpus Christi TX 78413
(512) 852-3096

THE LFW GROUP

Software: Professional Services
12700 Park Central
Suite 1805
Dallas TX 75251
(214) 233-5561

M/A-COM LINKBIT

Hardware: Local Area Networks
3033 Science Park Dr
San Diego CA 92121
(619) 457-2340

M/A-COM OFFICE SYSTEMS

Hardware: Microcomputers
7 Oak Park
Bedford MA 01730
(617) 275-4440

MACS/MANAGEMENT & COMPUTER SERVICES

Software: Job Costing
Great Valley Corporate Center
Valley Forge PA 19482
(215) 648-0730

MAD COMPUTER

Software: Desktop Microcomputers
Hardware: Microcomputers
3350 Scott Blvd Bldg 13
Santa Clara CA 95051
(408) 980-0840

MADWEST SOFTWARE

Software: Graphics
PO Box 9822
Madison WI 53715
(608) 238-4875

MAG SOFTWARE

Software: Data Base Management
21054 Sherman Way
Suite 305
Canoga Park CA 91303
(213) 883-3267

MAI/BASIC FOUR

Software: Desktop Microcomputers
Hardware: Microcomputers
Information Systems Div
14101 Myford Rd
Tustin CA 92680
(714) 731-5100

MANX SOFTWARE SYSTEMS

Software: Languages
PO Box 55
Shrewsbury NJ 07701
(201) 780-4004

MARC SOFTWARE INTERNATIONAL

Software: Word Processing/Text Editing
260 Sheriden Avenue
Suite 200
Palo Alto CA 94306
(415) 326-1971

MARINE MANAGEMENT SYSTEMS

Software: Professional Services
102 Hamilton Ave
Stamford CT 06902
(203) 327-6404

MARK OF THE UNICORN

Software: Word Processing/Text Editing, Data Communications
222 Third St
Cambridge MA 02142
(617) 576-2760

MARTEC INTERNATIONAL ELECTRONICS

Hardware: Microcomputers
20 Williams St
Wellesley MA 02181
(617) 237-2115

MAS INC

Software: Utilities
6826 Dean Dr
McLean VA 22101
(202) 293-1624

MATHEMATICA PRODUCTS GROUP

Software: Data Base Management
PO Box 2392
Princeton NJ 08540
(609) 799-2600

MATROX ELECTRONIC SYSTEMS

Hardware: Microcomputers, Add-on Memories
5800 Andover Ave
T M R Montreal H4T 1H4
Canada
(514) 735-1182

MAXTOR

Hardware: Winchester
150 River Oaks Pkwy
San Jose CA 95134
(408) 942-1700

MBP SOFTWARE AND SYSTEMS TECHNOLOGY

Software: Languages
7700 Edgewater Dr
Oakland CA 94621
(415) 632-1555

DANN MCCREARY SOFTWARE

Software: Data Communications
PO Box 16435
San Diego CA 92116
(714) 747-5041

MCCULLOUGH & ASSOCIATES

Software: Manufacturing
1401 N Jesse James Rd
Excelsior Springs MO 64024
(816) 637-8638

MCM COMPUTERS

Hardware: Microcomputers
133 Dalton St
Kingston ON K7L 4W2
Canada
(613) 544-9860

MEGAHAUS

Software: Word Processing/Text Editing
5703 Oberlin Dr
San Diego CA 92121
(619) 450-1230

MEGAVALT MEMORIES

Hardware: Winchester
6431 Independence Ave
Woodland Hills CA 91367
(818) 884-7300

MEMODYNE

Hardware: Printers
220 Reservoir St
Needham Heights MA 02194
(617) 444-7000

MEMOREX

Hardware: Winchester
San Tomas & Central Expwy
Santa Clara CA 95052
(408) 987-1000

MEMOTECH LTD

Software: Desktop Microcomputers
 Station Lane
 Whitney Oxon
 OX8 6BX England
 Telephone: 0993-2977

MEPCOM INTERNATIONAL

Hardware: Printers
 Box 610719
 Dallas TX 75261-0719
 (214) 641-6901

MERCATOR BUSINESS SYSTEMS

Hardware: Microcomputers
 1294 Lawrence Station Rd
 Sunnyvale CA 94086
 (408) 734-5134

MERLIN INFORMATION SYSTEMS

Software: Investment Services
 PO Box 178510
 San Deigo CA 92117
 (619) 483-6485

METAMORPHICS

Software: Investment Services
 Two Bala Plaza
 Bala Cynwyd PA 19004
 (800) 523-0206 215-668-9000

METASOFT

Software: Word Processing/Text Editing
 6509 W Frye Rd
 Suite 12
 Chandler AZ 85224
 (602) 961-0003

MICRO ASSOCIATES

Software: General Ledger
 2300 Highway 365
 Suite 510, LB 131
 Nederland TX 77627
 (409) 724-6583

MICRO BUSINESS SYSTEMS

Software: Professional Services, Manufacturing
 7725 Broadway
 Suite B
 Merrillville IN 46410
 (219) 769-3445

MICRO CONTROL SYSTEMS

Software: Graphics
 27 Hartford Turnpike
 Vernon CT 06066
 (203) 647-0220

MICRO DATA BASE SYSTEMS

Software: Data Base Management
 PO Box 248
 Lafayette IN 47902
 (317) 448-1616

MICRO DATA BUSINESS FORMS AND SYSTEMS

Software: Accounts Payable, Accounts Receivable,
 General Ledger, Payroll/Personnel, Job
 Costing, Integrated Accounting,
 Sales/Distribution, Professional Services
 5707 Lacey Blvd
 #104
 Olympia WA 98503
 (206) 459-3300

MICRO DISPLAY SYSTEMS

Hardware: Display Monitors
 1330 Vermillion St
 Hastings MN 55033
 (612) 437-2233

MICRO FIVE COMPUTERS

Software: Multiuser Microcomputers
Hardware: Microcomputers
 3560 Hyland Ave
 Costa Mesa CA 92626
 (714) 957-1517

MICRO FOCUS

Software: Program Development/Debugging,
 Languages
 2465 E Bayshore Rd
 Suite 400
 Palo Alto CA 94303
 (415) 856-4161

MICRO INFORMATION SYSTEMS

Software: Investment Services, Professional Services
 Route 309 & Richardson Rd
 Montgomeryville PA 18936
 (215) 855-2700

MICRO MANUFACTURING SYSTEMS

Software: Manufacturing
 187 Shagbark
 Westerville OH 43081
 (614) 895-0738

MICRO PERIPHERALS

Hardware: Diskettes, Printers
 9754 Deering Ave
 Chatsworth CA 91311
 (213) 709-4202

MICRO SOURCE

Hardware: Microcomputers
 PO Box 319
 New Lebanon OH 45345
 (513) 687-1395

MICRO SYSTEMS SOFTWARE

Software: Data Communications
 4301-18 Oak Circle
 Boca Raton FL 33431
 (305) 983-3390

MICRO TECHNOLOGY

Hardware: Diskettes
 1100-G Katella Ave
 Orange CA 92667
 (714) 771-1042

MICRO TECHNOLOGY UNLIMITED

Hardware: Microcomputers
 PO Box 12106
 2806 Hillsborough St
 Raleigh NC 27605
 (919) 833-1458

MICRO-AP

Software: Data Base Management
 7033 Village Pkwy
 Dublin CA 94568
 (415) 828-6697

MICRO-CROP

Software: Professional Services
 8245 Northwest 52 Street Suite 111
 Miami FL 33166
 (305) 594-2925

MICRO-SCI

Hardware: Diskettes
 2158 S Hathaway St
 Santa Ana CA 92705
 (714) 731-9461

MICROAPL LTD

Hardware: Microcomputers
 19 Catherine Pl
 Victoria, London
 England SW1E 6DX
 Telephone: 01-834-2687/8

MICROBAR SYSTEMS

Hardware: Microcomputers
 1120 San Antonio Rd
 Palo Alto CA 94303
 (415) 964-2862

MICROCALL SERVICES

Software: Data Communications
 PO Box 650
 Laurel MD 20707
 (301) 776-5253

MPSI (MICROCOBOL PRODUCTS)**Software:** Languages

2471 E Bayshore Rd
Palo Alto CA 94303
(415) 856-3382

MICROCOM**Software:** Data Communications

1400 A Providence Hwy
Norwood MA 02062
(617) 762-9310

MICROCOMPUTER CONSULTANTS**Software:** Accounts Payable, Accounts Receivable, General Ledger, Sales/Distribution

PO Box 1377
Davis CA 95617
(800) 824-5952 (outside CA)
(916) 756-8104 (inside CA)

MICROCOMPUTER MEMORIES**Hardware:** Winchester

7444 Valjean Ave
Van Nuys CA 91406
(818) 782-2222

MICRODATA**Software:** Desktop Microcomputers

17481 Red Hill Ave
Irvine CA 92713
(714) 250-1000

MICROGRAFX**Software:** Graphics

1701 N Greenville Ave
Suite 703
Richardson TX 75081
(214) 234-1769

MICROMATION LTD**Software:** Word Processing/Text Editing

1 Yorkdale Rd
Suite 406
Toronto Ontario MA6A3A1
Canada

MICROPERIPHERAL**Hardware:** Modems

2565 152nd Ave NE
Redmond WA 98052
(206) 881-7544

MICROPOLIS**Hardware:** Winchester, Diskettes

21329 Nordhoff St
Chatsworth CA 91311
(213) 709-3300

MICROPRO INTERNATIONAL**Software:** Decision Support, Integrated Applications, Word Processing/Text Editing, Data Base Management, Utilities

33 San Pablo Ave
San Rafael CA 94903
(415) 499-1200

MICRORIM**Software:** Data Base Management

1750 112th NE
Bellevue WA 98004
(206) 453-6017

MICROSOFT**Software:** Decision Support, Integrated Applications, Word Processing/Text Editing, Operating Systems, Languages**Hardware:** Add-on Memories

10700 Northup Way
Bellevue WA 98004
(206) 828-8080

MICROSTANDARD TECHNOLOGIES**Software:** Portable Microcomputers

PO Box 319
New Lebanon OH 45345
(513) 687-1395

MICROSTUF**Software:** Data Communications

1900 Leland Drive
Suite 12
Marietta GA 30067
(404) 952-0267

MICROTECH EXPORTS**Software:** Utilities

467 Hamilton Avenue
Suite 2
Palo Alto CA 94301
(415) 324-9114

MICROTEK**Hardware:** Add-on Memories

9514 Chesapeake Dr
San Diego CA 92123
(714) 278-0633

MICROTOUCH SYSTEMS**Hardware:** Display Monitors

400 W Cummings
Woburn MA 01801
(617) 935-0080

MICROVITEC LTD**Hardware:** Display Monitors

25 Waterside Plaza
New York NY 10018
(212) 684-7788

MIDWEST COMPUTER CENTER**Software:** Accounts Payable, Accounts Receivable, General Ledger, Payroll/Personnel, Job Costing, Sales/Distribution, Decision Support, Professional Services, Manufacturing

5785 Merle Hay Road
Johnston IA 50131
(515) 276-3387

MILES COMPUTING**Software:** Payroll/Personnel

7136 Haskell Ave
Suite 204
Van Nuys CA 91406
(213) 994-6279

MILLER MICROCOMPUTER SERVICES**Software:** Languages

61 Lake Shore Rd
Natick MA 01760
(617) 653-6136

MINISCRIBE**Hardware:** Winchester

410 S Sunset
Longmont CO 80501
(303) 651-6000

MISOSYS**Software:** Graphics, Utilities, Program Development/Debugging

5904 Edgehill Dr
Alexandria VA 22303
(703) 960-2998

MITSUBISHI ELECTRIC**Hardware:** Printers

Mitsubishi Denki Bldg
Marunouchi Tokyo 100
Japan

MITSUBISHI ELECTRONICS AMERICA**Hardware:** Winchester

991 Knox St
Torrance CA 90502
(213) 515-3993

MOLECULAR COMPUTER**Software:** Multiuser Microcomputers**Hardware:** Microcomputers

251 River Oaks Pkwy
San Jose CA 95134
(408) 262-2122

MONOLITHIC SYSTEMS**Hardware:** Add-on Memories

4 Inverness Circle East
Englewood CO 80112
(303) 770-7400

MONROE SYSTEMS

Software: Data Communications, Desktop Microcomputers

Hardware: Microcomputers

The American Rd
Morris Plains NJ 07950
(201) 993-2000

MORGAN-FAIRFIELD GRAPHICS

Software: Graphics

1923 First #300
Seattle WA 98101
(206) 682-2879

MORROW

Hardware: Printers

600 McCormick
San Leandro CA 94577
(415) 436-1970

MORROW DESIGNS

Software: Desktop Microcomputers

Hardware: Microcomputers, Add-on Memories

5221 Central Ave
Richmond CA 94804
(415) 524-2101

MOSAIC SOFTWARE

Software: Integrated Applications, Graphics

1972 Massachusetts Ave
Cambridge MA 02140
(617) 491-2434

MOTOROLA

Software: Multiuser Microcomputers

Hardware: Microcomputers

Box 20912
5005 E McDowell Rd
Phoenix AZ 85008
(602) 244-5723

MPC PERIPHERALS

Hardware: Add-on Memories

9424 Chesapeake Dr
San Diego CA 92123
(619) 278-0630

MPS COMPANY

Software: Engineering/Scientific

8 North Grant Drive
Addison IL 60101
(312) 543-1748

MULTI-SOFT

Software: Data Base Management

120 E 90th St
New York NY 10028
(212) 534-0602

MULTI-TECH SYSTEMS

Hardware: Microcomputers, Modems

82 Second Ave SE
New Brighton MN 55112
(612) 631-3550

MULTITECH ELECTRONICS

Hardware: Microcomputers

195 W El Camino Real
Sunnyvale CA 94022
(408) 773-8400

MUSE SOFTWARE

Software: Word Processing/Text Editing

347 N Charles St
Baltimore MD 21201
(301) 659-7212

MYCROFT LABS

Software: Data Communications, Utilities

2639 N Monroe St
Suite B188
Tallahassee FL 32303
(904) 385-1141

N. F. SYSTEMS

Software: Data Base Management, Data Communications

PO Box 76363
Atlanta GA 30358
(404) 252-3302

N-SQUARED COMPUTING

Software: Investment Services

5318 Forest Ridge Rd
Silverton OR 97381
(503) 873-5906

NATIONAL SEMICONDUCTOR

Software: Desktop Microcomputers

Hardware: Microcomputers

2900 Semiconductor Dr
Santa Clara CA 95051
(408) 737-5000

NBI

Software: Word Processing/Text Editing

3450 Mitchell Lane
PO Box 9001
Boulder CO 80301
(303) 444-5710

NCR

Software: Multiuser Microcomputers, Desktop Microcomputers

Hardware: Microcomputers

1700 S Patterson Blvd
Dayton OH 45479
(513) 445-2075

NEC INFORMATION SYSTEMS

Software: Multiuser Microcomputers, Desktop Microcomputers

Hardware: Microcomputers, Printers, Modems

5 Militia Dr
Lexington MA 02173
(617) 862-3120

NELMA DATA

Software: Desktop Microcomputers

5170 Timberlea Blvd
Mississauga Ontario Canada L4W
2S5
Telephone: 416-624-0334

NESTAR SYSTEMS

Software: Data Communications

Hardware: Microcomputers, Local Area Networks

2585 E Bayshore Rd
Palo Alto CA 94303
(415) 493-2223

NETWORK SYSTEMS

Hardware: Local Area Networks

7600 Boone Ave N
Brooklyn Park MN 55428
(612) 425-2202

NEW GENERATION SYSTEMS

Software: Utilities

1253 Golf Course Dr
Reston VA 22091
(800) 368-3359
(703) 476-9143

NISSIM ASSOCIATES

Software: General Ledger, Investment Services

2714 Pine St
San Francisco CA 94115
(415) 563-6170

NIXDORF COMPUTER AG

Software: Desktop Microcomputers

Furstenallee 7
4790 Paderborn
West Germany 05251 200263

NNC ELECTRONICS

Hardware: Microcomputers

15631 Computer Lane
Huntington Beach CA 92649
(714) 895-8000

NONSUCH SOFTWARE

Software: Graphics

22 Brandeis Circle
Newton MA 02159
(617) 444-9130

NORELL DATA SYSTEMS

Software: Word Processing/Text Editing, Utilities

3400 Wilshire Blvd
Los Angeles CA 90010
(213) 257-2026

NORTH AMERICA MICA

Software: Job Costing

11772 Sorrento Valley Rd
San Diego CA 92121
(714) 481-6998

NORTH AMERICAN BUSINESS SYSTEMS

Software: Integrated Applications

642 Office Pkwy
St Louis MO 63141
(314) 432-6101

NORTH STAR COMPUTERS

Software: Multiuser Microcomputers, Desktop Microcomputers

Hardware: Microcomputers

14440 Catalina St
San Leandro CA 94577
(415) 357-8500

NORTHERN TELECOM

Software: Desktop Microcomputers

Hardware: Microcomputers

PO Box 1222
Minneapolis MN 55440
(612) 932-8376

PETER NORTON

Software: Utilities

2210 Wilshire Blvd
Santa Monica CA 90403
(213) 399-3948

NOVATION

Hardware: Modems

20409 Prairie St
Chatsworth CA 91311
(213) 996-5060

NOVELL

Hardware: Local Area Networks

1170 N Industrial Park Dr
Orem UT 84054
(801) 226-8202

NU DATA

Hardware: Modems

32 Fairview Ave
Little Silver NJ 07739
(201) 842-5757

NUMERITRONIX

Hardware: Microcomputers

2580 Azurite Circle
Newbury Park CA 91320
(805) 499-2643

O'HANLON COMPUTER SYSTEMS

Software: Data Base Management

11058 Main St
Bellevue WA 98004
(206) 454-2261

OASIS SYSTEMS

Software: Word Processing/Text Editing

2765 Reynard Way
San Diego CA 92103
(714) 291-9489

OBS SOFTWARE

Software: Program Development/Debugging

115 Sansome St
San Francisco CA 94104
(415) 391-9555

OCCUPATIONAL COMPUTING COMPANY

Software: General Ledger, Payroll/Personnel, Integrated Accounting, Professional Services

22311 Ventura Blvd
Suite 123
Woodland Hills CA 91364
(213) 999-1919

OHIO DATA BASE

Software: Professional Services, Word Processing/Text Editing

4402 W 215
No 1
Cleveland OH 44126
(216) 333-5033

OKIDATA

Hardware: Printers

111 Gaither Dr
Mt Laurel NJ 08054
(609) 235-2600

OLIVETTI

Software: Desktop Microcomputers, Portable Microcomputers

Hardware: Microcomputers, Printers

155 White Plains Rd
Tarrytown NY 10591
(914) 631-8100

OLYMPIA USA

Software: Desktop Microcomputers

Hardware: Microcomputers, Printers

Rt 22
PO Box 22
Somerville NJ 08876
(201) 722-7000

OLYMPIC SYSTEMS

Software: Manufacturing

410 Macklyn Ave
Santa Rosa CA 95405
(707) 526-1294

OMEGA MICROWARE

Software: Utilities

Hardware: Add-on Memories

222 S Riverside Plaza
Chicago IL 60606
(312) 648-4844

OMICRON SOFTWARE

Software: Graphics

57 Executive Pk, S NE
Suite 590
Atlanta GA 30329
(404) 325-0124

OMNIBYTE

Hardware: Microcomputers

245 W Roosevelt Rd
Bldg 1 Unit 5
West Chicago IL 60185
(312) 231-6880

OMNITEC DATA

Hardware: Modems

2405 S 20th St
Phoenix AZ 85034
(800) 528-8423

ON-LINE INSTRUMENT SYSTEMS

Software: Engineering/Scientific

Route 2
Box 239A
Jefferson GA 30549
(404) 367-9191

ON-LINE SOFTWARE

Software: Data Communications

Fort Lee Executive Pk
Two Executive Dr
Fort Lee NJ 07024
(800) 592-0009

ONTEL

Hardware: Microcomputers

250 Crossways Park Dr
Woodbury NY 11797
(516) 364-2121

ONYX SYSTEMS

Software: Integrated Applications, Languages, Multiuser Microcomputers, Desktop Microcomputers

Hardware: Microcomputers
25 E Trimble Rd
San Jose CA 95131
(408) 946-6330

OPEN SYSTEMS

Software: Accounts Payable, Accounts Receivable, General Ledger, Payroll/Personnel, Job Costing, Sales/Distribution

430 Oak Grove
Suite 409
Minneapolis MN 55403
(612) 870-3515

OR-D SYSTEMS

Software: Professional Services
1200B Haddonfield Rd
Cherry Hill NJ 08002
(609) 665-2255

ORACLE

Software: Data Base Management
2710 Sand Hill Rd
Menlo Park CA 94025
(415) 854-7350

ORCHID TECHNOLOGY

Hardware: Local Area Networks
47790 Westinghouse Dr
Fremont CA 94536
(415) 490-8586

ORGANIC SOFTWARE

Software: Job Costing
6049 Douglas Blvd
Suite 13
Roseville CA 95678
(916) 791-4747

OSBORNE COMPUTER

Hardware: Microcomputers
26500 Corporate Ave
Hayward CA 94545
(415) 887-8080

OSM COMPUTER

Software: Multiuser Microcomputers
Hardware: Microcomputers
2364 Walsh Ave
Santa Clara CA 95051
(408) 496-6910

OTRONA

Software: Portable Microcomputers
Hardware: Microcomputers
4725 Walnut St
Boulder CO 80301
(303) 444-8100

OWL SOFTWARE

Software: Word Processing/Text Editing
6927 Atoll Ave
North Hollywood CA 91605
(213) 982-6243

P-E CONSULTING GROUP

Software: Decision Support
Park House, Wick Rd
Egham Surrey PW20 0HW
England
Telephone: 0784-34411

PACIFIC SOFTWARE MANUFACTURING

Software: Data Base Management
2608 8th St
Berkeley CA 94710
(415) 540-5000

PACSOFT

Software: Engineering/Scientific
733 Seventh Ave
Kirkland WA 98033
(206) 827-0551

PALANTIR SOFTWARE

Software: Word Processing/Text Editing
3400 Montrose Blvd
Houston TX 77006
(713) 520-8221

PANASONIC

Software: Portable Microcomputers
Hardware: Microcomputers, Printers, Display Monitors
One Panasonic Way
Secaucus NJ 07094
(201) 348-7000

PARAMETRICS

Software: Engineering/Scientific
1129 W Oak
Ft Collins CO 80521
(303) 221-3163

PASCAL SYSTEMS

Software: Data Base Management
830 Menlo Ave
Suite 109
Menlo Pk CA 94025
(415) 321-0761

PEACHTREE SOFTWARE

Software: Accounts Payable, Accounts Receivable, General Ledger, Payroll/Personnel, Job Costing, Sales/Distribution, Decision Support, Integrated Applications, Graphics, Word Processing/Text Editing
3445 Peachtree Rd NE
Atlanta GA 30326
(404) 239-3000

PEARLSOFT

Software: Data Base Management
DIV OF RELATIONAL SYSTEMS
PO Box 638
25195 SW Parkway
Wilsonville OR 97070
(503) 682-3636

PEBX

Hardware: Add-on Memories
501 Vandell Way
Campbell CA 95008
(408) 866-7838

PEGASUS DATA SYSTEMS

Hardware: Microcomputers
236 Lackland Dr
Middlesex NJ 08846
(301) 666-8797

PERFECT SOFTWARE

Software: Decision Support, Word Processing/Text Editing, Data Base Management, Data Communications
1001 Camelia St
Berkeley CA 94710
(800) 222-4222
(415) 527-2626

PERICOMP

Software: Accounts Payable, Accounts Receivable, Integrated Accounting, Utilities
Five Star Software Div
14 Huron Dr
Natick MA 01760
(617) 655-7660

PERKIN-ELMER

Software: Multiuser Microcomputers
2 Crescent Pl
Oceanport NJ 07757
(201) 870-4712

PERSONAL MICRO COMPUTERS

Hardware: Microcomputers, Diskettes
475 Ellis Street
Mountain View CA 94043
(415) 962-0220

PERTEC COMPUTER

Software: Multiuser Microcomputers
Hardware: Microcomputers
17332 Von Karman Ave
PO Box 19602
Irvine CA 92714
(714) 540-8340

PHASE ONE SYSTEMS

Software: Decision Support, Operating Systems
7700 Edgewater Dr
Suite 830
Oakland CA 94621
(415) 562-8085

PHC

Hardware: Microcomputers
 PO Box 1108
 22 Metty Dr
 Ann Arbor MI 48106
 (313) 994-0501

PHILADELPHIA CONSULTING GROUP

Software: Data Communications
 PO Box 102
 Wynnewood PA 19096
 (215) 649-1598

PHILIPS DATA SYSTEMS

Software: Multiuser Microcomputers
 PO Box 245
 Apeldoorn
 The Netherlands
 Telephone: 055-230123

PHOENIX SOFTWARE ASSOCIATES

Software: Program Development/Debugging
 1420 Providence Hwy
 Suite 260
 Norwood MA 02062
 (617) 769-7020

PLANSMITH

Software: Investment Services
 50 N Brockway
 Palantine IL 60067
 (312) 359-4045

PLENARY SYSTEMS

Hardware: Microcomputers
 9669 Wendell Rd
 Dallas TX 75243
 (214) 343-9901

PLESSEY MICROSYSTEMS

Hardware: Add-on Memories
 451 Hungerford Dr
 Rockville MD 20850
 (301) 279-2892

PLESSEY PERIPHERAL SYSTEMS COMPUTER PRODUCTS DIV

Hardware: Add-on Memories
 1674 McGaw Ave
 Irvine CA 92714
 (714) 540-9945

PLEXUS COMPUTERS

Software: Multiuser Microcomputers
 2230 Martin Ave
 Santa Clara CA 95050
 (408) 988-1753

PMI INC

Software: Program Development/Debugging
 P O Box 87
 Buckfield ME 04220
 (800) 227-1836
 (207) 336-2500

POINT 4 DATA

Software: Operating Systems, Multiuser Microcomputers
Hardware: Microcomputers
 2569 McCabe Way
 Irvine CA 92714
 (714) 863-1111

POLARIS MICROCOMPUTERS

Hardware: Microcomputers
 8200 Haskell Ave
 Van Nuys CA 91406
 (213) 989-5111

POSSE

Software: Sales/Distribution
 2828 Forest Lane
 Suite 2161
 Dallas TX 75234
 (214) 241-9444

POWERSOFT

Software: Graphics
 11500 Stemmons Expressway
 Suite 125
 Dallas TX 75229
 (214) 484-2976

PRAGMATRONICS

Hardware: Local Area Networks
 2015 10th St
 Boulder CO 80302
 (303) 444-2600

PRECISION VISUALS

Software: Graphics
 6260 Lookout Rd
 Boulder CO 80301
 (303) 530-9000

PREDEX

Software: Data Communications
 1345 Avenue of the Americas
 New York NY 10019
 (212) 977-9090

PRENTICE

Hardware: Modems
 266 Caspian Dr
 Sunnyvale CA 94086
 (408) 734-9810

PRENTICE HALL

Software: Graphics
BUSINESS & PROFESSIONAL DIV
 Route 9 West
 Englewood Cliffs NJ 07632
 (201) 592-3283

PRIAM

Hardware: Winchesters
 20 W Montague Expwy
 San Jose CA 95134
 (408) 946-4600

PRIME COMPUTER

Hardware: Local Area Networks
 Prime Park
 Natick MA 01760
 (617) 655-8000

PRIMESOFT

Software: Graphics
 PO Box 40
 Cabin John MD 20818
 (301) 229-4229

PRINCETON GRAPHIC SYSTEMS

Hardware: Display Monitors
 1101-I State Rd
 Princeton NJ 08540
 (609) 683-1660

PRINTER PRODUCTS

Hardware: Printers
 24 Denby Rd
 Allston MA 02134
 (617) 787-2030

PRODUCT ASSOCIATES

Hardware: Microcomputers
 465 Convention Way
 Redwood City CA 94063
 (415) 364-3121

PROFESSIONAL BUSINESS COMPUTER SYSTEMS

Software: Manufacturing
 10215 N Scottsdale Road
 Scottsdale AZ 85235
 (602) 948-5772

PROFESSIONAL COMPUTER SERVICES

Software: Professional Services
 524 Cooke St
 Honolulu HI 96813
 (800) 367-5062

PROFESSIONAL SOFTWARE

Software: Word Processing/Text Editing, Data Base Management

51 Fremont St
Needham MA 02194
(617) 444-5224

PROFESSIONAL SOFTWARE INNOVATIONS

Software: Professional Services

118 W Cervantes
Pensacola FL 32501
(904) 434-7450

PROTEON ASSOCIATES

Hardware: Local Area Networks

24 Crescent St
Waltham MA 02154
(617) 894-1980

PROTEX INDUSTRIES

Hardware: Local Area Networks

STARNET DATA SYSTEMS DIV
1331 W Evans Ave
Denver CO 80223
(303) 935-3566

PSA

Software: Data Communications

4940 Viking Dr #436
Edina MN 55435
(612) 831-3030

PYRAMID DATA LTD

Software: Decision Support

PO Box 10116
Santa Ana CA 92711
(714) 639-1527

QINT DATABASE SYSTEMS

Software: Data Base Management

50 Waban Hill Rd N
Chestnut Hill MA 02167
(617) 527-9329

QUADRAM

Hardware: Add-on Memories, Display Monitors

4357 Park Dr
Norcross GA 30093
(404) 923-6666

QUALOGY

Hardware: Winchester

2241 Lundy Ave
San Jose CA 95131
(408) 946-5800

QUANTUM

Hardware: Winchester

1804 McCarthy Blvd
Milpitas CA 95035
(408) 262-1100

QUANTUM COMPUTER SYSTEMS LTD

Hardware: Microcomputers

60-62 The Balcony, Merion Centre
Leeds
England LS2 8NG
Telephone: (0532)458877

QUARK

Software: Word Processing/Text Editing

2525 W Evans
Suite 220
Denver CO 80219
(303) 934-2211

QUARTERDECK OFFICE SYSTEMS

Software: Integrated Applications

1918 Main St
Suite 240
Santa Monica CA 90405
(213) 392-9851

QUASAR DATA PRODUCTS

Hardware: Microcomputers

10330 Brecksville Rd
Cleveland OH 44141
(216) 526-0838

QUASITRONICS

Hardware: Add-on Memories

211 Vandale Dr
Houston PA 15342
(412) 745-2663

QUAY

Hardware: Microcomputers

527 Industrial Way W
PO Box 783
Eatontown NJ 07724
(201) 542-7340

QUELO

Software: Program Development/Debugging

843 NW 54th
Seattle WA 98107
(206) 784-8018

QUIC-N-EASI PRODUCTS

Software: Data Base Management

136 Granite Hill Ct
Langhorne PA 19047
(215) 968-5966

QUME

Hardware: Winchester, Printers

2350 Qume Dr
San Jose CA 95131
(408) 942-4000

R&B COMPUTER SYSTEMS

Software: Professional Services

1806 Highway 35
PO Box 2293
Ocean City NJ 07712
(800) 631-2179 201-531-2300

R&L SOFTWARE

Software: Engineering/Scientific

1299 Beacon Street
Newton MA 02168
(617) 964-0992

RABBIT SOFTWARE

Software: Data Communications

1 Great Valley Pkwy East
Malvern PA 19355
(215) 647-0440

RACAL-DANA INSTRUMENTS

Hardware: Printers

4 Goodyear St 92714
PO Box C-19541
Irvine CA 92713
(714) 859-8999

RACAL-MILGO

Hardware: Local Area Networks

COMPUTER PRODUCTS DIV
6250 NW 27th Way
Fort Lauderdale FL 33309
(305) 979-4000

RACAL-VADIC

Hardware: Modems

222 Caspian Dr
Sunnyvale CA 94086-9874
(408) 744-0810

RAINBOW COMPUTING

Software: Graphics

8811 Amigo Ave
Northridge CA 91324
(213) 349-0300
(800) 423-5441

RAIR

Hardware: Microcomputers

4101 Burton Dr
Santa Clara CA 95050
(408) 988-1790

RAIR LTD**Hardware:** Microcomputers

6-9 Upper St Martins La
London
England WC2H 9EQ
Telephone: 01-836-6921

RC COMPUTER**Software:** Desktop Microcomputers

Lautrupbjerg 1
DK 2750 Ballerup Denmark
Telephone: +45-2-65-80-00

READER'S DIGEST SERVICES**Software:** Data Base Management

**MICROCOMPUTER SOFTWARE
DIVISION**
Pleasantville NY 10570
(914) 769-7000

REALWORLD SOFTWARE**Software:** Accounts Payable, Accounts Receivable,
General Ledger, Payroll/Personnel,
Sales/Distribution

Dover Rd
Willow Hill Bldg
Chichester NH 03263
(603) 798-5700

REDDING GROUP**Software:** Graphics, Data Communications

609 Main St
Ridgefield CT 06877
(203) 431-4661

REGENCY SYSTEMS**Hardware:** Microcomputers

PO Box 3590
1610 Interstate Dr
Champaign IL 61820
(217) 398-8067

REMEX**Software:** Engineering/Scientific**Hardware:** Diskettes

6095 28th St SE
Suite A
Grand Rapids MI 49506
(616) 942-9800

REMOTE COMPUTING**Software:** Investment Services

1076 E Meadow Circle
Palo Alto CA 94303
(415) 494-6111

RESTON PUBLISHING**Software:** Graphics

11480 Sunset Hills Rd
Reston VA 22090
(703) 437-8900

RETAIL SOLUTIONS**Software:** Sales/Distribution

1211 Alderwood Ave
Sunnyvale CA 94086
(408) 734-0653

REVEAL SOFTWARE**Software:** Investment Services

380 N Broadway
Jericho NY 11753
(516) 935-2000

RG SOFTWARE SYSTEMS**Software:** Program Development/Debugging

501 Office Center Dr
Fort Washington PA 19034
(215) 646-0590

RICOH**Hardware:** Printers

20 Gloria Lane
Fairfield NJ 07006
(201) 575-9550

RIXON**Hardware:** Modems

2120 Industrial Pkwy
Silver Springs MD 20904
(301) 662-2121

GARY ROBBEN & ASSOCIATES**Software:** Investment Services

6740 Antioch Rd
Merriam KS 66204
(913) 677-3383

RODIME**Hardware:** Winchesters

25801 Obrero
Suite 6
Mission Viejo CA 92691
(714) 770-3085

ROSESOFT INC**Software:** Utilities

4710 University Way NE
Suite 601
Seattle WA 98105
(206) 524-2350

RR SOFTWARE**Software:** Languages

PO Box 1512
Madison WI 53701
(608) 244-6436

RYAN-MCFARLAND**Software:** Languages

609 Deep Valley Dr
Rolling Hills Estates CA 90274
(213) 541-4828

R2E OF AMERICA**Hardware:** Microcomputers

2545 W County Rd C
Roseville MN 55113
(612) 638-5900

S.S.R.**Software:** Sales/Distribution

1600 Lyell Avenue
Rochester NY 14606
(716) 254-3200

**SAGE COMPUTER
TECHNOLOGY****Software:** Multiuser Microcomputers**Hardware:** Microcomputers

4905 Energy Way
Reno NV 89502
(702) 322-6868

SAKATA USA**Hardware:** Display Monitors

651 Bonnie La
Elk Grove Village IL 60007
(312) 593-3211

SAMNA**Software:** Word Processing/Text Editing

2700 NE Expressway
Suite C-1200
Atlanta GA 30345
(404) 321-5006

SANYO BUSINESS SYSTEMS**Software:** Desktop Microcomputers**Hardware:** Microcomputers, Printers, Display Monitors

51 Joseph St
Moonachie NJ 07074
(201) 440-9300

**SATELLITE SOFTWARE
INTERNATIONAL****Software:** Word Processing/Text Editing

288 W Center St
Orem UT 84057
(801) 224-8554

SATURN SYSTEMS**Software:** Decision Support**Hardware:** Add-on Memories

6875 Washington Ave South
Suite 218
Minneapolis MN 55435
(612) 944-2452
(800) 328-6145

SAVANT**Software:** Investment Services

PO Box 440278
Houston TX 77244
(800) 231-9900 713-556-8363

SBCC & ELCO SYSTEMS**Software:** Professional Services, Manufacturing

13562 Sussex Place
Santa Ana CA 92705
(714) 731-4558

SCENIC COMPUTER SYSTEMS**Hardware:** Microcomputers

14852 NE 31st Circle
Redmond WA 98052
(206) 885-5500

SCHUCHARDT SOFTWARE SYSTEMS**Software:** Word Processing/Text Editing

515 Northgate Dr
San Rafael CA 94903
(415) 492-9330

SCI SYSTEMS**Hardware:** Microcomputers

5000 Technology Drive
PO Box 1000
Huntsville AL 35807
(205) 882-4800

SCI-COM COMPUTER SYSTEMS**Software:** Multiuser Microcomputers**Hardware:** Microcomputers

981 Rte 22
PO Box 6050
Bridgeport NJ 08807
(201) 685-0070

SCIENTIFIC DATA SYSTEMS**Hardware:** Microcomputers, Local Area Networks

344 Main Street
Venice CA 90291
(213) 390-8673

SCIENTIFIC MICRO SYSTEMS**Hardware:** Microcomputers, Diskettes

777 E Middlefield Rd
Mountain View CA 94043
(415) 964-5700

SDSYSTEMS**Hardware:** Microcomputers

1011 Miller Rd
PO Box 28810
Dallas TX 75228
(214) 340-0303

SEAGATE TECHNOLOGY**Hardware:** Winchester

360 El Pueblo Rd
Scotts Valley CA 95066
(408) 438-6550

SEASONED SYSTEMS**Software:** Utilities

Box 3036
417 Lakeshore Lane
Chapel Hill NC 27514
(919) 967-5818

SEATTLE COMPUTER PRODUCTS**Hardware:** Microcomputers, Add-on Memories

1114 Industry Dr
Seattle WA 98188
(206) 575-1830

SEEQUA COMPUTER**Software:** Desktop Microcomputers, Portable Microcomputers

8305 Telegraph Rd
Odenton MD 21113
(301) 672-3600

SELECT INFORMATION SERVICES**Software:** Word Processing/Text Editing

919 Sir Frances Drake Blvd
Kentfield CA 90904
(415) 459-4003

SELFWARE**Software:** Utilities

3545 Chain Bridge Rd
Suite 3
Fairfax VA 22030
(703) 352-2977

SELVA SYSTEMS**Software:** Graphics

167 Worcester St
Wellesley MA 02181
(617) 431-7576

SEMIDISK SYSTEMS**Hardware:** Add-on Memories

PO Box GG
Beaverton OR 97075
(503) 642-3100

SENDERO**Software:** Investment Services

4815 N 14th Pl
Phoenix AZ 85014
(602) 279-0401

SENSIBLE SOFTWARE**Software:** Graphics, Word Processing/Text Editing, Data Communications, Utilities, Program Development/Debugging

24011 Seneca
Oak Park MI 48237
(313) 399-8877

SHUGART**Hardware:** Winchester, Diskettes

435 Oakmead Pkwy
Sunnyvale CA 94086
(408) 733-0100

SIEMENS AG**Software:** Desktop Microcomputers

Postfach 103
D-8000 Munchen 1
West Germany 089 23 41

SIERRA NATIONAL**Hardware:** Microcomputers

5037 Ruffner St
San Diego CA 92111
(714) 277-4810

SIERRA ON-LINE**Software:** Word Processing/Text Editing

Sierra On-Line Building
Coarsegold CA 93614
(209) 683-6858

SIGNUM MICROSYSTEMS**Software:** Utilities

120 Mountain Ave
Bloomfield CT 06002
(203) 726-1911

SILICON VALLEY**Software:** Word Processing/Text Editing

1625 El Camino Real #4
Belmont CA 94002
(415) 593-4344

SIMUTEK COMPUTER PRODUCTS**Software:** Word Processing/Text Editing

4897 E Speedway Blvd
Tucson AZ 85712
(602) 323-9391

SINCLAIR OPTICS**Software:** Engineering/Scientific

20 N Main Street
Pittsford NY 14354
(716) 381-9100

SINGLE SOURCE SOLUTION**Software:** Investment Services, Professional Services

2637 Pleasant Hill Rd
Pleasant Hill CA 94523
(415) 680-0202

SKY SOFTWARE**Software:** Payroll/Personnel

103 Lexington Ave
Passaic NJ 07055
(201) 779-3399

SMALL BUSINESS SYSTEMS GROUP

Software: Sales/Distribution, Professional Services,
Data Communications
6 Carlisle Road
Westford MA 01886
(617) 692-3800

THE SMALL COMPUTER COMPANY

Software: Data Base Management
230 W 41st St
Suite 1200
New York NY 10036
(212) 398-9290

SMART SYSTEMS

Software: Program Development/Debugging
499 Sully Ln
Frederick MD 21701
(301) 694-4728

SMC SOFTWARE SYSTEMS

Software: Operating Systems, Languages
1011 Route 22
PO Box 6800
Bridgewater NJ 08807
(201) 685-9000

SMITH-CORONA

Hardware: Printers
Consumer Products Div
65 Locust Ave
New Canaan CT 06840
(203) 972-1471

SMOKE SIGNAL BROADCASTING

Software: Decision Support
Hardware: Microcomputers, Add-on Memories
31336 Via Colinas
Westlake Village CA 91361
(213) 889-9340

SOFSTAR

Software: Decision Support
13935 US Hwy #1
Juno Beach FL 33408
(305) 627-5511

SOFSYS

Software: Word Processing/Text Editing
4306 Upton Ave S
Minneapolis MN 55410
(612) 929-7104

SOFTECH MICROSYSTEMS

Software: Operating Systems, Languages
16885 W Bernardo Dr
San Diego CA 92127
(619) 451-1230

SOFTEL

Software: Graphics
PO Box 257
Stoddard NH 03464
(212) 677-6599

SOFTTEST

Software: Word Processing/Text Editing
555 Goffle Rd
Ridgewood NJ 07450
(201) 447-3901

SOFTLINK

Software: General Ledger
3255-2 Scott Blvd
Santa Clara CA 95051
(408) 988-8011

SOFTREND

Software: Integrated Applications
2 Manor Parkway
Salem NH 03079
(603) 898-1777

SOFTRONICS

Software: Operating Systems, Data Communications
6626 Prince Edward
Memphis TN 38119
(901) 755-5006

SOFTWARE ARTS

Software: Decision Support
27 Mica Lane
Wellesley MA 02181
(617) 237-4000

SOFTWARE AUTOMATION

Software: Program Development/Debugging
14333 Proton Rd
Dallas TX 75234
(214) 392-2802

THE SOFTWARE CONNECTION

Software: Data Base Management
9016 SW 152 St
Miami FL 33157
(305) 252-2051

SOFTWARE CONNECTIONS

Software: Data Communications
1800 Wyatt Dr
Suite 17
Santa Clara CA 95054
(408) 988-3704

SOFTWARE DYNAMICS

Software: Word Processing/Text Editing
Hardware: Local Area Networks
2111 W Crescent
Suite G
Anaheim CA 92801
(714) 635-4760

SOFTWARE EXPRESS

Software: Program Development/Debugging
10103 Fondren
Suite 220
Houston TX 77096
(800) 231-0062

SOFTWARE GROUP

Software: Program Development/Debugging
10471 S Brookhurst St
Anaheim CA 92804
(714) 535-5274

SOFTWARE HOWS

Software: Professional Services
402 N Larchmont
Los Angeles CA 90004
(213) 871-1350

SOFTWARE MODULE MARKETING

Software: Data Communications
Crocker Bank Building/Penthouse
1007 Seventh St
Sacramento CA 95814
(800) 824-8512

SOFTWARE PRODUCTS INTERNATIONAL

Software: Accounts Receivable, Integrated Accounting,
Decision Support, Integrated Applications,
Professional Services, Data Base Management
10240 Sorrento Valley Rd
San Diego CA 92121
(619) 450-1526

SOFTWARE PUBLISHING

Software: Graphics, Word Processing/Text Editing,
Data Base Management
1901 Landings Dr
Mountain View CA 94043
(415) 962-8910

SOFTWARE RESOURCES

Software: Investment Services
186 Alewife Brook Parkway
Suite 310
Cambridge MA 02138
(617) 497-5900

SOFTWARE SOLUTIONS

Software: Accounts Payable, Accounts Receivable,
General Ledger, Payroll/Personnel,
Sales/Distribution
P O Box 301
Muscataine IA 52761
(319) 264-1384

SOFTWARE SORCERY

Software: Operating Systems, Data Communications
7927 Jones Branch Dr
Suite 400
McLean VA 22102
(703) 385-2944

SOFTWARE STRATEGIES

Software: Program Development/Debugging
7412 Washington Ave South
Eden Prairie MN 55344
(800) 328-7847

THE SOFTWARE TOOLWORKS

Software: Word Processing/Text Editing
15233 Ventura Blvd
Sherman Oaks CA 91403
(213) 906-0414

SOFTWORD SYSTEMS

Software: Word Processing/Text Editing
52 Oakland Ave N
East Hartford CT 06108
(203) 522-2116

SOLZBERG RESEARCH ASSOCIATES

Software: Manufacturing
3 Seabrook Court
Stony Brook NY 11760
(516) 751-4277

SONY

Software: Desktop Microcomputers
Hardware: Microcomputers
Microcomputer Products Division
7 Mercedes Dr
Montvale NJ 07645
(201) 930-1000

SORCIM/IUS

Software: Decision Support, Integrated Applications,
Program Development/Debugging
2195 Fortune Dr
San Jose CA 95131
(408) 942-1727

SORD COMPUTER OF AMERICA

Software: Graphics, Desktop Microcomputers, Portable
Microcomputers
645 Fifth Ave
New York NY 10022
(212) 759-0140

SOUTHEASTERN SOFTWARE

Software: Data Communications
6414 Derbyshire Drive
New Orleans LA 70126
(504) 246-8438

SOUTHWEST SYSTEMS

Software: Accounts Payable, Accounts Receivable,
Payroll/Personnel, Job Costing, Integrated
Accounting
44 Third Ave
Suite F
Chula Vista CA 92010
(619) 425-5500

SOUTHWESTERN DATA SYSTEMS

Software: Data Communications
PO Box 582
Santee CA 92071
(714) 562-3670

SPECTRA/SOFT

Software: Professional Services
PO Box 277
Chandler AZ 85224
(602) 963-6380

SPERRY

Software: Desktop Microcomputers
PO Box 500
Blue Bell PA 19424
(215) 542-4011

SSM MICROCOMPUTER

Software: Data Communications
Hardware: Add-on Memories
2190 Paragon Dr
San Jose CA 95131
(408) 946-7400

STANDARD ENGINEERING

Hardware: Local Area Networks
44800 Industrial Dr
Fremont CA 94538
(415) 657-7555

STAR MICRONICS

Hardware: Printers
200 Park Ave
Pan Am Building Suite 2308
New York NY 10166
(212) 986-6770

STAR SOFTWARE SYSTEMS

Software: Accounts Payable, Accounts Receivable,
General Ledger, Payroll/Personnel, Integrated
Accounting
20600 Gramercy Pl
Suite 103
Torrance CA 90501
(213) 538-2511

STAR VALUE SOFTWARE

Software: Investment Services
12218 Scribe Dr
Austin TX 78759
(512) 837-5498

STARSOFT

Software: Professional Services
Route 11
Box 412
Rock Hill SC 29730
(803) 328-3103

STATE OF THE ART

Software: Accounts Payable, General Ledger,
Payroll/Personnel, Sales/Distribution
3181-A Airway Avenue
Costa Mesa CA 92626-4618
(714) 850-0111

STEARNS COMPUTER SYSTEMS

Hardware: Display Monitors
10901 Bren Rd E
Minneapolis MN 55440
(612) 936-2000

STELLATION TWO

Hardware: Add-on Memories
Lobero Blvd
PO Box 2342
Santa Barbara CA 93120
(805) 966-1140

STM ELECTRONICS

Software: Portable Microcomputers
Hardware: Microcomputers
525 Middlefield Rd
Suite 130
Menlo Pk CA 94025
(415) 326-6226

STOK SOFTWARE

Software: Utilities, Languages
17 W 17th St
New York NY 10011
(212) 243-1444

STONEWARE

Software: Data Base Management
50 Belvedere St
San Rafael CA 94901
(415) 459-8838

STRATUS COMPUTER

Hardware: Local Area Networks
17 Strathmore Rd
Natick MA 01760
(617) 653-1466

STRUCTURED SYSTEMS GROUP (SSG)

Software: Accounts Payable, Accounts Receivable,
General Ledger, Payroll/Personnel,
Sales/Distribution, Decision Support,
Integrated Applications, Word
Processing/Text Editing, Data Base
Management, Utilities
5204 Claremont Ave
Oakland CA 94618
(415) 547-1567

STSC

Software: Languages
2115 E Jefferson St
Rockville MD 20852
(301) 984-5000

SUNBELT COMPUTER SYSTEMS**Software:** Program Development/Debugging, Languages

5525 E 51st St
Suite 111
Tulsa OK 74135
(800) 331-9163
(918) 660-0670

SUNOL SYSTEMS**Hardware:** Winchesters

PO Box 1777
1072 Serpentine Lane
Pleasanton CA 94566
(415) 484-3322

SUPEREX BUSINESS SOFTWARE**Software:** Sales/Distribution

151 Ludlow St
Yonkers NY 10705
(914) 964-5200

SUPERSOFT**Software:** Decision Support, Word Processing/Text Editing, Data Base Management, Data Communications, Utilities, Program Development/Debugging, Languages

PO Box 1628
Champaign IL 61820
(217) 359-2112

SYKES DATATRONICS**Hardware:** Microcomputers

159 E Main St
Rochester NY 14604
(716) 325-9000

SYNTEX**Hardware:** Local Area Networks

246 Industrial Way W
Eatontown NJ 07724
(201) 542-1500

SYSCOM**Hardware:** Printers

2754 NW N River Dr
Miami FL 33142
(305) 633-1546

SYSTEM INTEGRATION ASSOCIATES**Software:** Professional Services, Operating Systems

Suite L-13 Great Valley Center
81 Lancaster Avenue
Malvern PA 19355
(215) 296-7420

SYSTEMS GROUP**Hardware:** Add-on Memories

1601 Orangewood Ave
Orange CA 92668
(714) 633-4460

SYSTEMS PLUS**Software:** General Ledger, Integrated Accounting, Decision Support, Professional Services

1120 San Antonio Rd
Palo Alto CA 94303
(415) 969-7047

SYTE INFORMATION TECHNOLOGY**Software:** Multiuser Microcomputers

11339 Sorrento Valley Rd
San Diego CA 92121
(619) 457-2270

SYTEK**Hardware:** Local Area Networks

1225 Charleston Rd
Mountain View CA 94943
(408) 734-9000

T/MAKER**Software:** Decision Support

2115 Landings Dr
Mountain View CA 94043
(415) 962-0195

TAB PRODUCTS**Hardware:** Microcomputers

1451 California Ave
Palo Alto CA 94304
(415) 858-2500

TANDATA**Hardware:** Microcomputers

3336 E 32nd St
Suite 6
Tulsa OK 74135
(918) 747-2071

TANDON**Hardware:** Diskettes

20320 Prairie St
Chatsworth CA 91311
(213) 993-6644

TANDY (RADIO SHACK)**Software:** Payroll/Personnel, Engineering/Scientific, Graphics, Word Processing/Text Editing, Operating Systems, Data Base Management, Program Development/Debugging, Multiuser Microcomputers, Desktop Microcomputers, Portable Microcomputers**Hardware:** Microcomputers, Printers

1800 One Tandy Center
Fort Worth TX 76102
(817) 390-3300

TARANTO & ASSOCIATES**Software:** Accounts Payable, Accounts Receivable, General Ledger, Payroll/Personnel, Integrated Accounting, Sales/Distribution

121 Paul Dr
San Rafael CA 94903
(415) 472-2670

TARBELL ELECTRONICS**Hardware:** Microcomputers

950 Dovlen Place
Suite B
Carson CA 90746
(213) 538-4251

TCS SOFTWARE**Software:** Accounts Payable, Accounts Receivable, General Ledger, Payroll/Personnel, Sales/Distribution, Professional Services, Manufacturing, Data Base Management

3209 Fondren Rd
Houston TX 77063
(713) 977-7505

TEAC**Hardware:** Diskettes

7733 Telegraph Rd
Montebello CA 90640
(213) 726-0303

TECHNICAL ANALYSIS GROUP**Software:** Investment Services

1021 Ninth St
New Orleans LA 70115
(800) 535-7990

TECHNICAL DATA**Software:** Investment Services

1 Federal St
Boston MA 02110
(617) 482-3449

TECHNICAL SYSTEMS CONSULTANTS**Software:** Program Development/Debugging

111 Providence Rd
Chapel Hill NC 27514
(919) 493-1451

TECHNOLOGY CONCEPTS**Hardware:** Local Area Networks

Old County Rd
Sudbury MA 01776
(617) 443-7311

TECMAR**Hardware:** Add-on Memories

23600 Mercantile Rd
Cleveland OH 44122
(216) 464-7410

TEK-COM**Hardware:** Modems

2142 Paragon Dr
San Jose CA 95131
(408) 263-7400

TEKKNOWLEDGE**Software:** Decision Support

525 University Way
Palo Alto CA 94301
(415) 327-6600

TEKTRONIX**Hardware:** Microcomputers

PO Box 500
41150 SW Karl Braun Dr
Beaverton OR 97077
(503) 644-0161

TELEPHONE SOFTWARE CONNECTION**Software:** Data Communications

PO Box 6548
Torrance CA 90504
(213) 516-9430

TELERAM COMMUNICATIONS**Software:** Portable Microcomputers**Hardware:** Microcomputers

2 Corporate Park Dr
White Plains NY 10604
(914) 694-9270

TELESOFT**Software:** Languages

10639 Rosell St
San Diego CA 92121
(619) 457-2700

TELETEK**Hardware:** Add-on Memories

9767 F Business Park Dr
Sacramento CA 95827
(916) 361-1771

TELETONE**Hardware:** Local Area Networks

10801 120th Ave NE
Kirkland WA 98033
(206) 827-9626

TELEVIDEO SYSTEMS**Software:** Decision Support, Data Communications, Multiuser Microcomputers, Desktop Microcomputers, Portable Microcomputers**Hardware:** Microcomputers

1170 Morse Ave
Sunnyvale CA 94086
(408) 745-7760

TENSEGRITY**Software:** Engineering/Scientific

2424 W Addison St
Chicago IL 60618
(312) 935-9714

TERAK**Hardware:** Microcomputers

14151 N 76th St
Scottsdale AZ 85260
(602) 998-4800

TEXAS INSTRUMENTS**Software:** Desktop Microcomputers, Portable Microcomputers**Hardware:** Microcomputers, Local Area Networks

PO Box 2909
Austin TX 78769
(512) 250-7111

TEXASOFT**Software:** Languages

3415 Westminster
Suite 100
Dallas TX 75205
(214) 369-0795

THOMAN SOFTWARE (TSC)**Software:** Professional Services

1821 Summit Rd
Suite 107
Cincinnati OH 45237
(513) 948-8700

THOUGHTWARE PUBLISHING**Software:** Accounts Payable

PO Box 669
Grants Pass OR 97526
(503) 476-1467

THREE RIVERS COMPUTER**Hardware:** Microcomputers

720 Gross St
Pittsburgh PA 15224
(412) 621-6250

THRESHOLD SOFTWARE**Software:** Engineering/Scientific

1832 Tribute Rd
Suite E
Sacramento CA 95815
(916) 920-8189

THUNDERBIRD AUTOMATION GROUP**Software:** Investment Services

4301 E 31st St
Tulsa OK 74135
(918) 744-8009

TIMEPLEX**Hardware:** Modems

400 Chestnut Ridge Rd
Woodcliffe Lake NJ 07675
(201) 391-1111

TIMERLINE SYSTEMS**Software:** Accounts Payable, Accounts Receivable, General Ledger, Payroll/Personnel, Decision Support

7180 SW Fir Loop
Portland OR 97223
(503) 644-8155

TIPNIS**Software:** Manufacturing

10815 Indeco Dr
Cincinnati OH 45241
(513) 791-3805

TMS/MSC**Software:** Professional Services

2155 South 3270 West
Salt Lake City UT 84119
(801) 973-5800

TNW**Hardware:** Modems

3444 Hancock St
San Diego CA 92110
(619) 296-2115

TORCH COMPUTERS LTD**Hardware:** Microcomputers

Abberley House
Great Shelford Cambridge
England CB25LQ
Telephone: (0223)841000

TOSHIBA AMERICA**Software:** Desktop Microcomputers**Hardware:** Microcomputers, Printers

2441 Michelle Dr
Tustin CA 92680
(714) 730-5000

TRAC LINE SOFTWARE**Software:** Job Costing, Sales/Distribution, Professional Services, Manufacturing, Data Base Management

51 Alpha Plaza
Hicksville NY 11801
(516) 935-7500

TRENDATA/STANDARD MEMORIES**Hardware:** Add-on Memories

3400 W Segerstrom Ave
Santa Ana CA 92704
(714) 540-3605

TREND/COM/3M**Hardware:** Printers

480 Oakmead Parkway
Sunnyvale CA 94086
(408) 737-0747

TRI-DATA**Hardware:** Modems

505 E Middlefield Rd
Mountain View CA 94043
(415) 969-3700

TRILLIAN COMPUTER**Software:** Integrated Applications

129 Central Ave
Los Gatos CA 95031
(408) 358-2761

TRINITY COMPUTING SYSTEMS**Software:** Professional Services

1020 Holcombe Blvd
Houston TX 77030
(713) 790-1895

TRIVECTOR COMMERCE LTD**Software:** Multiuser Microcomputers**Hardware:** Microcomputers

Sunderland Rd
Sandy, Bedfordshire
England SG19 1RB
Telephone: 44 767 82222

TUCK ELECTRONICS**Hardware:** Modems

330 2nd St
New Cumberland PA 17070
(717) 761-4354

TYMSHARE**Hardware:** Printers

20705 Valley Green Rd
Cupertino CA 95014
(408) 446-6000

U.S. DESIGN**Hardware:** Winchesters

5100 Philadelphia Way
Lanham MD 20706
(301) 577-2880

U.S. ROBOTICS**Hardware:** Modems

1123 W Washington
Chicago IL 60607
(312) 733-0497

UNGERMANN-BASS**Hardware:** Local Area Networks

2560 Mission College Blvd
Santa Clara CA 95050
(408) 496-0111

UNICALC**Software:** Decision Support

Two Academy Ln
Wayne PA 19087
(215) 687-3485

UNIFIED SOFTWARE SYSTEMS**Software:** Languages

PO Box 2644
New Carrollton MD 20784
(301) 552-9590

UNION PLANTERS NATIONAL BANK**Software:** Investment Services

67 Madison Ave
Memphis TN 38103
(901) 523-6640

UNIQUE INFORMATION SYSTEMS**Software:** Professional Services, Engineering/Scientific

221 N LaSalle St
Suite 1320
Chicago IL 60601
(312) 332-2820

UNITED PERIPHERALS**Hardware:** Diskettes

432 Lakeside Dr
Sunnyvale CA 94086
(408) 730-4440

UNIVERSAL DATA SYSTEMS**Hardware:** Modems

5000 Bradford Dr
Huntsville AL 35805
(205) 837-8100

UVEON COMPUTER SYSTEMS**Software:** Data Base Management

899 Logan St
Denver CO 80203
(800) 525-1637

VANDATA**Software:** Integrated Accounting

17544 Midvale Ave N
Suite 107
Seattle WA 98133
(800) 426-5248
(206) 542-7611

VANGUARD SYSTEMS**Software:** Languages

4224 Centergate
San Antonio TX 78217
(512) 656-1093

VECTOR GRAPHIC**Software:** Integrated Accounting, Decision Support, Graphics, Word Processing/Text Editing, Data Base Management, Data Communications, Multiuser Microcomputers, Desktop Microcomputers**Hardware:** Microcomputers

500 N Ventu Park Rd
Thousand Oaks CA 91320
(805) 499-5831

VEN-TEL**Hardware:** Modems

2342 Walsh Ave
Santa Clara CA 95051
(408) 727-5721

VERBATIM**Software:** Utilities

323 Soquel Way
Sunnyvale CA 94086
(408) 245-4400

VERTEX SYSTEMS**Software:** Utilities

7950 W Fourth St
Los Angeles CA 90048
(213) 938-0857

VIA COMPUTER**Software:** Decision Support

7177 Construction Ct
San Diego CA 92121
(714) 578-5356

VICTOR DATA PRODUCTS**Hardware:** Printers

380 El Pueblo Rd
Scotts Valley CA 95066
(408) 438-6680

VICTOR UNITED**Hardware:** Microcomputers

3900 N Rockwell St
Chicago IL 60618
(312) 539-8200

VICTORY COMPUTER SYSTEMS**Hardware:** Microcomputers

2055 Gateway Pl
Suite 300
San Jose CA 95110
(408) 295-4600

VIEHMANN**Software:** Manufacturing

274 Main St
Reading MA 01867
(617) 944-5787

VINING-SPARKS SECURITIES

Software: Investment Services
889 RidgeLake Blvd
Memphis TN 39118
(800) 238-3357 901-766-4442

VISICORP

Software: Job Costing, Decision Support, Integrated Applications, Professional Services, Graphics, Word Processing/Text Editing, Data Base Management, Data Communications, Utilities
2895 Zanker Road
San Jose CA 95134
(408) 946-9000

VISIONARY ELECTRONICS

Hardware: Modems
141 Parker Ave
San Francisco CA 94118
(415) 751-8811

VISTA COMPUTER

Hardware: Diskettes
1317 E Edinger Ave
Santa Ana CA 92705
(714) 953-0523

VISUAL COMPUTER

Software: Portable Microcomputers
135 Maple St
Marlboro MA 01752
(617) 480-0000

VIVITAR COMPUTER PRODUCTS

Hardware: Printers
2110 116th Ave NE
Bellevue WA 98009
(206) 454-9250

VM PERSONAL COMPUTING

Software: Data Communications
60 E 42nd St
New York NY 10165
(212) 697-4747

VOLITION SYSTEMS

Software: Languages
PO Box 1236
Del Mar CA 92014
(714) 481-2286

WANG LABORATORIES

Software: Desktop Microcomputers
Hardware: Microcomputers, Local Area Networks
One Industrial Ave
Lowell MA 01851
(617) 459-5000

WAVE MATE

Hardware: Microcomputers
14009 S Crenshaw Blvd
Hawthorne CA 90250
(213) 978-8600

WESTERN DIGITAL

Hardware: Microcomputers
2445 McCabe Way
Irvine CA 92714
(714) 557-3550

WESTERN DYNEX

Hardware: Winchesters
3536 W Osborn Rd
Phoenix AZ 85019
(602) 269-6401

WESTERN ELECTRIC

Software: Operating Systems
PO Box 25000
Greensboro NC 27420
(919) 697-2000

WESTERN SOFTWARE DEVELOPMENT

Software: Word Processing/Text Editing
PO Box 953
Woodland Park CO 80863
(303) 687-2517

WESTICO

Software: Job Costing, Data Communications
25 Van Zant St
Norwalk CT 06855
(203) 853-6880

WESTMINSTER SOFTWARE

Software: Job Costing
3000 Sand Hill Rd
Bldg 4 Suite 245
Menlo Park CA 94025
(415) 854-1400

WHITESMITHS LTD

Software: Operating Systems, Languages
97 Lowell Rd
Concord MA 01742
(617) 369-8499

WICAT SYSTEMS

Software: Decision Support, Word Processing/Text Editing, Operating Systems, Multiuser Microcomputers
Hardware: Microcomputers
PO Box 539
1875 State St
Orem UT 84057
(801) 224-6400

WINTEK

Hardware: Microcomputers
1801 South St
Lafayette IN 47904
(317) 742-8428

WPL ASSOCIATES

Software: Professional Services
1105 Spring St
Suite F9
Silver Spring MD 20910
(301) 589-8588

XEBEC

Hardware: Winchesters
432 Lakeside Dr
Sunnyvale CA 94088-3512
(408) 735-1340

XEDEX

Hardware: Add-on Memories
222 Rt 59
Suffern NY 10901
(914) 368-0353

XEROX

Software: Desktop Microcomputers
Hardware: Microcomputers, Local Area Networks
1341 W Mockingbird La
Dallas TX 75247
(214) 630-2611

XITEN SYSTEMS

Hardware: Winchesters
16811 Hawthorne Blvd
Lawndale CA 90260
(213) 370-3966

XYCOM

Hardware: Microcomputers
750 N Maple Rd
Saline MI 48176
(313) 429-4971

XYLOGICS

Hardware: Microcomputers
144 Middlesex Turnpike
Burlington MA 01803
(617) 272-8140

XYZT COMPUTER DIMENSIONS

Software: Integrated Applications
2 Penn Plaza
Suite 1500
New York NY 10121
(212) 244-3100

**ZEDA COMPUTERS
INTERNATIONAL****Hardware:** Microcomputers1662 W 820 N
Provo UT 84601
(801) 377-9948**ZENITH DATA SYSTEMS****Software:** Word Processing/Text Editing, Data
Communications, Desktop Microcomputers,
Portable Microcomputers**Hardware:** Microcomputers, Winchesters, Diskettes,
Printers, Display Monitors1000 Milwaukee Ave
Glenview IL 60025
(312) 391-8744**ZENTEC****Software:** Multiuser Microcomputers**Hardware:** Microcomputers2400 Walsh Ave
Santa Clara CA 95050
(408) 727-7662**ZILOG****Software:** Multiuser Microcomputers**Hardware:** Microcomputers, Local Area Networks1315 Dell Ave
Campbell CA 95008
(408) 370-8000

Product-Specific Vendor Directory

APPLICATIONS SOFTWARE

Accounts Payable

American Business Systems
ASK Micro
BOS National
Burroughs
Champion Software
Compact Software International
Computech Group
Construction Data Control
Continental Software
CYMA
Data General
Designers & Builders of
Information Systems (DBIS)
Feith Systems and Software
Fisher Business Systems
Groundstar Software
Hayden Software
Heritage Holdings
INFO Designs
Information Unlimited Software
(IUS)
International Micro Systems (IMS)
Micro Data Business Forms and
Systems
Microcomputer Consultants
Midwest Computer Center
Open Systems
Peachtree Software
Pericomp
RealWorld Software
Software Solutions
Southwest Systems
Star Software Systems
State of the Art
Structured Systems Group (SSG)
Taranto & Associates
TCS Software
Thoughtware Publishing
Timerline Systems

Accounts Receivable

American Business Systems
Applied Microcomputer Systems
ASK Micro
BOS National
Bristol Information Systems
Burroughs
Champion Software
Compact Software International
Computech Group
Continental Software

CYMA
Data General
Designers & Builders of
Information Systems (DBIS)
Feith Systems and Software
Fisher Business Systems
Groundstar Software
Hayden Software
Heritage Holdings
INFO Designs
Information Unlimited Software
(IUS)
International Micro Systems (IMS)
Micro Data Business Forms and
Systems
Microcomputer Consultants
Midwest Computer Center
Open Systems
Peachtree Software
Pericomp
RealWorld Software
Software Products International
Software Solutions
Southwest Systems
Star Software Systems
Structured Systems Group (SSG)
Taranto & Associates
TCS Software
Timerline Systems

General Ledger

American Business Systems
ASK Micro
BOS National
Burroughs
Champion Software
Compucount
Computech Group
Construction Data Control
Continental Software
CYMA
Data General
Eagle Enterprises
Feith Systems and Software
Frontier Software
Groundstar Software
Hayden Software
Heritage Holdings
INFO Designs
Information Unlimited Software
(IUS)
International Micro Systems (IMS)
Micro Associates

Micro Data Business Forms and
Systems
Microcomputer Consultants
Midwest Computer Center
Nissim Associates
Occupational Computing
Company
Open Systems
Peachtree Software
RealWorld Software
Softlink
Software Solutions
Star Software Systems
State of the Art
Structured Systems Group (SSG)
Systems Plus
Taranto & Associates
TCS Software
Timerline Systems

Payroll/Personnel

American Business Systems
ASK Micro
Bristol Information Systems
Burroughs
Champion Software
Compact Software International
Computech Group
Computer Products International
Comshare
Construction Data Control
Continental Software
CYMA
Data General
Designers & Builders of
Information Systems (DBIS)
Feith Systems and Software
Groundstar Software
Hayden Software
Heritage Holdings
Higley & Co
Hilderbay Ltd
INFO Designs
Information Marketing Business
Ltd
Information Unlimited Software
(IUS)
International Micro Systems (IMS)
Micro Data Business Forms and
Systems
Midwest Computer Center
Miles Computing

Payroll/Personnel (Cont)

Occupational Computing Company
Open Systems
Peachtree Software
RealWorld Software
Sky Software
Software Solutions
Southwest Systems
Star Software Systems
State of the Art
Structured Systems Group (SSG)
Tandy (Radio Shack)
Taranto & Associates
TCS Software
Timerline Systems

Job Costing

Argos Software
Computer Options
Construction Data Control
Feith Systems and Software
Harvard Software
International Micro Systems (IMS)
MACS/Management & Computer Services
Micro Data Business Forms and Systems
Midwest Computer Center
North America MICA
Open Systems
Organic Software
Peachtree Software
Southwest Systems
Trac Line Software
VisiCorp
Westico
Westminster Software

Integrated Accounting

Accountants Microsystems
Alexander Grant & Co
Argos Software
ASK Micro
BPI Systems
Construction Data Control
CYMA
The Denver Software Company
Dynamic Microprocessor Associates
Great Plains Software
Groundstar Software
EF Haskell & Associates
Information Unlimited Software (IUS)
insoft
International Micro Systems (IMS)
Jersey Micro Systems

Micro Data Business Forms and Systems
Occupational Computing Company
Pericom
Software Products International
Southwest Systems
Star Software Systems
Systems Plus
Taranto & Associates
Vandata
Vector Graphic

Sales/Distribution

Absolut Software
American Business Systems
ASK Micro
BOS National
Bristol Information Systems
Burroughs
Champion Software
Computech Group
CYMA
Data General
Designers & Builders of Information Systems (DBIS)
Distribution Sciences
Feith Systems and Software
Groundstar Software
Hayden Software
Information Unlimited Software (IUS)
International Market Resources
International Micro Systems (IMS)
Micro Data Business Forms and Systems
Microcomputer Consultants
Midwest Computer Center
Open Systems
Peachtree Software
POSSE
RealWorld Software
Retail Solutions
S.S.R.
Small Business Systems Group
Software Solutions
State of the Art
Structured Systems Group (SSG)
Superex Business Software
Taranto & Associates
TCS Software
Trac Line Software

Decision Support

Access Technology
Addison-Wesley Publishing
Alpha Software
Apple Computer
ARTSCI
Business Planning Systems

Business Software Pty Ltd
Chang Labs
Computer Marketing Services
Comshare
Cyberia
Datamension
Desktop Computer Software
EPS
Execucom Systems
Executec
Executive Software
Ferox Microsystems
Groundstar Software
Haba Systems
IdeaWare
Information Access
Instant Software
Interactive Systems
ITSoftware
L & L Products
Living Videotext
MicroPro International
Microsoft
Midwest Computer Center
P-E Consulting Group
Peachtree Software
Perfect Software
Phase One Systems
Pyramid Data Ltd
Saturn Systems
Smoke Signal Broadcasting
Sofstar
Software Arts
Software Products International
Sorcim/IUS
Structured Systems Group (SSG)
Supersoft
Systems Plus
T/Maker
Teknowledge
TeleVideo Systems
Timerline Systems
UniCalc
Vector Graphic
Via Computer
VisiCorp
Wicat Systems

Integrated Applications

Alpha Software
Ashton-Tate
Business Solutions
Computer Associates
Context Management Systems
Emerging Technology Consultants
Executec
Graphicon Software
Lotus Development
MicroPro International
Microsoft

Mosaic Software
North American Business Systems
ONYX Systems
Peachtree Software
Quarterdeck Office Systems
Softrend
Software Products International
Sorcim/IUS
Structured Systems Group (SSG)
Trillian Computer
VisiCorp
XYZT Computer Dimensions

Investment Services

Anidata
Apache Electronic Systems
Applied Systems
BMA Business Computers
Cado Systems
ColorCorp
Computone Systems
Contour
The Cottonwood Company
Darling & Associates
Dow Jones Software
Eagle Software Publishing
European American Bank
Executec
Financial Systems
Financial Technology
Finser
H&H Scientific
Hewlett-Packard
Infoware
Integrated Management Services
International Data Processing
Isys
Littlewood, Shain & Co
Merlin Information Systems
Metamorphics
Micro Information Systems
N-Squared Computing
Nissim Associates
Plansmith
Remote Computing
Reveal Software
Gary Robben & Associates
Savant
Sendero
Single Source Solution
Software Resources
Star Value Software
Technical Analysis Group
Technical Data
Thunderbird Automation Group
Union Planters National Bank
Vining-Sparks Securities

Professional Services

A-Systems
Accountants Microsystems

AF Software Services
AgData
Agricultural Management Systems
Analytic Associates
Andent
Another Direction
Appel & Kreiss Software
Arlington Software + Systems
Automated Language Processing Systems
Aviation Analysis
Basis
Bear Computers
Bristol Information Systems
Business Management Systems
Cado Systems
Candela Electronics
Client Accounting Systems
CMA Micro Computer
CMV Software Specialists
Compugraphic
Compupeg
Compusol
Computer Consulting Services
Computer Task Group
Computone Systems
CYMA
Designers & Builders of Information Systems (DBIS)
Digital Marketing
Direct Aid
Enterprise Computer System
Execuware
Farmland Computer Systems
Feith Systems and Software
EF Haskell & Associates
Howard Software Services
Human Edge Software
Incom Systems
Information Network Systems
Innovative Software Associates
International Micro Systems (IMS)
JEB Systems
Jersey Micro Systems
The LFWF Group
Marine Management Systems
Micro Business Systems
Micro Data Business Forms and Systems
Micro Information Systems
Micro-Crop
Midwest Computer Center
Occupational Computing Company
Ohio Data Base
OR-D Systems
Professional Computer Services
Professional Software Innovations
R&B Computer Systems
SBCC & ELCO Systems
Single Source Solution

Small Business Systems Group
Software Hows
Software Products International
SPECTRA/SOFT
Starsoft
System Integration Associates
Systems Plus
TCS Software
Thoman Software (TSC)
TMS/MSC
Trac Line Software
Trinity Computing Systems
Unique Information Systems
VisiCorp
WPL Associates

Engineering/Scientific

Advanced Structural Technology
Anatrol
Binkley Software
Ecom Associates
Ecosoft
Entek Scientific
Golden State Business Systems
Graphic Software Systems
Hewlett-Packard
M Hudis & Associates
Kelix Software Systems
Land Innovation
Lifeboat Associates
MPS Company
On-Line Instrument Systems
Pacsoft
Parametrics
R&L Software
Remex
Sinclair Optics
Tandy (Radio Shack)
Tensegrity
Threshold Software
Unique Information Systems

Graphics

Accent Software
ACCUPIPE
Accusoft Enterprises
AlphaBit Communications
AutoDESK
Autographix
Automated Professional Systems
Big Trees Software
Business & Professional Software
Centerpoint Computer Applications
Chang Labs
Computer Station
Covington Computer Sales
Datasoft
Decision Resources

Graphics (Cont)

Dickens Data Systems
Digital Research
Digital Visions
Enertronics Research
Enter Computer
Escape Computer Software
Ferox Microsystems
Fox & Geller
Genigraphics
Geocomp
Geographix
Graphic Communications
Graphic Software Systems
Graphware
GTCO
Human Systems Dynamics
HyperGraphics
Imsi Software Publishers
Innovative Software
Interactive Picture Systems
International Software Alliance
Madwest Software
Micro Control Systems
Micrografx
Misosys
Morgan-Fairfield Graphics
Mosaic Software
Nonsuch Software
Omicron Software
Peachtree Software
PowerSoft
Precision Visuals
Prentice Hall
Primesoft
Rainbow Computing
Redding Group
Reston Publishing
Selva Systems
Sensible Software
Softel
Software Publishing
SORD Computer of America
Tandy (Radio Shack)
Vector Graphic
VisiCorp

Word Processing/Text Editing

AlphaBit Communications
Apple Computer
Applied Microcomputer Systems
Applied Technology Ventures
ARTSCI
Aton International
Beaman Porter
Berzurk Systems
BOS National
Broderbund Software
Computer Development

Computer Marketing Services
CompuView Products
Cornucopia Software
Cromemco
Datamed Research
Datamost
Datatek
Digital Marketing
EEC Systems
Einstein
Emerging Technology Consultants
Hayden Software
HFK Software
Horizon Software Systems
Human Engineered Software
IJG
Information Unlimited Software (IUS)
Intecolor
IntelSoft
International Software Alliance
ITSoftware
Kensington Microware
Leading Edge Products
Lexisoft
Lifeboat Associates
Lifetree Software
MARC Software International
Mark of the Unicorn
Megahaus
Metasoft
Micromation Ltd
MicroPro International
Microsoft
Muse Software
NBI
Norell Data Systems
Oasis Systems
Ohio Data Base
Owl Software
Palantir Software
Peachtree Software
Perfect Software
Professional Software
Quark
Samna
Satellite Software International
Schuchardt Software Systems
Select Information Services
Sensible Software
Sierra On-Line
Silicon Valley
Simutek Computer Products
SOFSYS
SofTest
Software Dynamics
Software Publishing
The Software Toolworks
Softword Systems
Structured Systems Group (SSG)
Supersoft

Tandy (Radio Shack)
Vector Graphic
VisiCorp
Western Software Development
Wicat Systems
Zenith Data Systems

Manufacturing

Anacomp
Compumax
Computer Methods
Digital Microsystems
Feith Systems and Software
Bernard Giffler Associates
High Technology Software Products
Key Systems
McCullough & Associates
Micro Business Systems
Micro Manufacturing Systems
Midwest Computer Center
Olympic Systems
Professional Business Computer Systems
SBCC & ELCO Systems
Solzberg Research Associates
TCS Software
Tipnis
Trac Line Software
Viehmann

SYSTEMS SOFTWARE

Operating Systems

Apple Computer
Aton International
BOS National
Cosmopolitan Electronics
Digital Research
Forth
Hunter & Ready
IBM
Intel
Lifeboat Associates
Logical Systems
Microsoft
Phase One Systems
Point 4 Data
SMC Software Systems
Softech Microsystems
Softronics
Software Sorcery
System Integration Associates
Tandy (Radio Shack)
Western Electric
Whitesmiths Ltd
Wicat Systems

Data Base Management

ABW
 Alpha Software
 American Planning
 Apple Computer
 Applied Data Research
 Applied Software Technology
 ARTSCI
 Ashton-Tate
 Automation Consultants
 International
 Caxton Software Publishing
 Compumax
 Computer Control Systems
 Computer Headware
 Concentric Data Systems
 Condor Computer
 Construction Data Control
 Contel Information Systems
 DAPI (Data Applications Products
 International)
 Data Access
 Day One Software
 Designers & Builders of
 Information Systems (DBIS)
 Digital Marketing
 Eagle Enterprises
 ESP Computer Resources
 GMS Systems
 Hayes Microcomputer Products
 Holliday Software
 Hoyle & Hoyle Software
 Info-Pros
 Information Builders
 Information Unlimited Software
 (IUS)
 Innovative Software
 insoft
 Institute for Scientific Information
 International Software Alliance
 ITSoftware
 Jini Micro-Systems
 Key Software
 LJK Enterprises
 Logical Software
 MAG Software
 Mathematica Products Group
 Micro Data Base Systems
 MICRO-AP
 MicroPro International
 Microrim
 Multi-Soft
 N. F. Systems
 O'Hanlon Computer Systems
 ORACLE
 Pacific Software Manufacturing
 Pascal Systems
 Pearlsoft
 Perfect Software
 Professional Software

Qint Database Systems
 QUIC-N-EASI Products
 Reader's Digest Services
 The Small Computer Company
 The Software Connection
 Software Products International
 Software Publishing
 Stoneware
 Structured Systems Group (SSG)
 Supersoft
 Tandy (Radio Shack)
 TCS Software
 Trac Line Software
 Uveon Computer Systems
 Vector Graphic
 VisiCorp

Data Communications

Abstract Systems
 Ace Computer Products
 Advanced Data Systems
 Apple Computer
 Arrow Micro Software
 Aton International
 The Communi Tree Group
 Computer Applications
 Computer Station
 Comshare
 Context Management Systems
 CP/M Users Group
 Cyberia
 Cypher Communications
 Technology
 Datamark Business Systems
 Digital Marketing
 Dow Jones Software
 Dynamic Microprocessor
 Associates
 Ferox Microsystems
 First Software
 General Micro Systems
 Hawkeye Grafix
 Hayes Microcomputer Products
 The Headlands Press
 IBM
 IE Systems
 Information Builders
 Inner Loop Software
 Intelligent Technologies
 International Software Alliance
 Linbergh Systems
 Link Systems
 Logica
 Lovells
 Mark of the Unicorn
 Dann McCreary Software
 Micro Systems Software
 MicroCALL Services
 Microcom
 Microstuf

Monroe Systems
 Mycroft Labs
 N. F. Systems
 Nestar Systems
 On-Line Software
 Perfect Software
 Philadelphia Consulting Group
 Predex
 PSA
 Rabbit Software
 Redding Group
 Sensible Software
 Small Business Systems Group
 Softronics
 Software Connections
 Software Module Marketing
 Software Sorcery
 Southeastern Software
 Southwestern Data Systems
 SSM Microcomputer
 Supersoft
 Telephone Software Connection
 TeleVideo Systems
 Vector Graphic
 VisiCorp
 VM Personal Computing
 Westico
 Zenith Data Systems

Utilities

Applied Microcomputer Systems
 Award Software
 Axel Johnson
 California Software Products
 Cdex Corp
 Computer Applications
 Computer Control Systems
 Computing
 CompuView Products
 Data Development
 Digital Marketing
 Digital Research
 Dymek Corp
 Dynamic Microprocessor
 Associates
 Errex
 Florida State University
 Frontier Software
 Holliday Software
 Inner Loop Software
 ITSoftware
 Johnson Associates Software
 Logical Systems
 MAS Inc
 MicroPro International
 Microtech Exports
 Misosys
 Mycroft Labs
 New Generation Systems
 Norell Data Systems
 Peter Norton

Utilities (Cont)

Omega MicroWare
Pericomp
RoseSoft Inc
Seasoned Systems
Selfware
Sensible Software
Signum Microsystems
Stok Software
Structured Systems Group (SSG)
Supersoft
Verbatim
Vertex Systems
VisiCorp

Program Development/Debugging

Apple Computer
Axel Johnson
Borland International
Bytel
CodeWriter Corp
Computer Control Systems
Computer Marketing Services
CompuView Products
Creative Solutions
Desktop Software
Execuware
Flexware
Fox & Geller
Hayden Software
ICR FutureSoft
Index Technology Corp (InTech)
Information & Systems Research
Information People
Key Solutions
Micro Focus
Misosys
OBS Software
Phoenix Software Associates
PMI Inc
Quelo
RG Software Systems
Sensible Software
Smart Systems
Software Automation
Software Express
Software Group
Software Strategies
Sorcim/IUS
Sunbelt Computer Systems
Supersoft
Tandy (Radio Shack)
Technical Systems Consultants

Languages

Adventure International
Alcor Systems
Alpha Computer Service
American Planning

Apple Computer
Borland International
Computer Innovations
Datamed Research
Digital Research
Einstein
Ellis Computing
Excalibur Technologies
insoft
ISE
Kaypro
Laboratory Microsystems
Lifeboat Associates
MANX Software Systems
Mbp Software and Systems
Technology
Micro Focus
MPSI (Microcobot Products)
Microsoft
Miller Microcomputer Services
ONYX Systems
RR Software
Ryan-McFarland
SMC Software Systems
Softech Microsystems
Stok Software
STSC
Sunbelt Computer Systems
Supersoft
TeleSoft
Texasoft
Unified Software Systems
Vanguard Systems
Volition Systems
Whitesmiths Ltd

Multiuser Microcomputers

Alpha Micro
Altos Computer Systems
Applied Digital Data Systems
AT&T Information Systems
Cado Systems
Callan Data Systems
Codata Systems
Columbia Data Products
CompuPro
Computer Automation
Datamedia
DBS International
Digilog Business Systems
Digital Equipment
Dynabyte
Fortune Systems
Future Computers Ltd
Honeywell Information Systems
ICL Computers
Instrumentation Laboratory
Intel
Intertec Data Systems
Intertechnique

Micro Five Computers
Molecular Computer
Motorola
NCR
NEC Information Systems
North Star Computers
ONYX Systems
OSM Computer
Perkin-Elmer
Pertec Computer
Philips Data Systems
Plexus Computers
Point 4 Data
Sage Computer Technology
SCI-COM Computer Systems
Syte Information Technology
Tandy (Radio Shack)
TeleVideo Systems
Trivector Commerce Ltd
Vector Graphic
Wicat Systems
Zentec
Zilog

Desktop Microcomputers

ACT
Apple Computer
AT&T Information Systems
Burroughs
Canon USA
Commodore Business Machines
COMPAQ Computer
Computer Automation
Computer Devices
Control Data
Corvus Systems
Data General
Datamedia
Datapoint
Digital Equipment
Eagle Computer
Epson America
Ericsson
Franklin Computer
Fujitsu Systems of America
Hewlett-Packard
Honeywell Information Systems
IBM
ICL Computers
Intertec Data Systems
ITT
Lanier Business Products
Mad Computer
MAI/Basic Four
Memotech Ltd
Microdata
Monroe Systems
Morrow Designs
National Semiconductor
NCR

NEC Information Systems
 Nelma Data
 Nixdorf Computer AG
 North Star Computers
 Northern Telecom
 Olivetti
 Olympia USA
 ONYX Systems
 RC Computer
 Sanyo Business Systems
 Seequa Computer
 Siemens AG
 Sony
 SORD Computer of America
 Sperry
 Tandy (Radio Shack)
 TeleVideo Systems
 Texas Instruments
 Toshiba America
 Vector Graphic
 Wang Laboratories
 Xerox
 Zenith Data Systems

Portable Microcomputers

ACT
 Actrix Computer
 AMust Compak Manufacturing
 Pty
 Anderson Jacobson
 Apple Computer
 Bytec-Comterm
 Columbia Data Products
 Compal Computer Systems
 COMPAQ Computer
 Computer Transceiver Systems
 Convergent Technologies
 Corona Data Systems
 Eagle Computer
 Epson America
 Franklin Computer
 Grid Systems
 Hewlett-Packard
 IBM
 Jonos
 Kaypro
 MicroStandard Technologies
 Olivetti
 Otrona
 Panasonic
 Seequa Computer
 SORD Computer of America
 STM Electronics
 Tandy (Radio Shack)
 Teleram Communications
 TeleVideo Systems
 Texas Instruments
 Visual Computer
 Zenith Data Systems

HARDWARE

Microcomputers

Able Computer
 Accelerated Data Systems
 Acorn Computers Ltd
 Action Computer Enterprise
 Alpha Micro
 Altos Computer Systems
 Apple Computer
 Applied Digital Data Systems
 Applied Systems
 Atari
 Barrington International
 Billings Computer
 Blackhawk Computers
 BMC Computer
 Burroughs
 Bytec-Comterm
 Cado Systems
 Callan Data Systems
 Campbell Scientific
 Canon USA
 Capro
 Casio
 Central Data
 Centurion Computer
 Charles River Data Systems
 Chrislin Industries
 Chromatics
 Cifer Systems Ltd
 Colonial Data Services
 Columbia Data Products
 Comark
 Commodore Business Machines
 Compal Computer Systems
 COMPAQ Computer
 CompuPro
 Computer Ancillaries Ltd
 Computer Automation
 Computer Devices
 The Computerist
 Computhink
 Control Data
 Control Logic
 Corvus Systems
 Cromemco
 Cybersystems
 Data General
 Data Terminal Systems
 Datamedia
 Datapoint
 Datavue
 Datricon
 Delta Data Systems
 Digicomp Research
 Digilog Business Systems
 Digital Design & Development
 Digital Equipment

Digital Laboratories
 Digital Microsystems
 Display Data
 Distributed Computer Systems
 Dual Systems
 Durango Systems
 Dynabyte
 Dynatem
 E&L Instruments
 E&U Engel Consulting
 Eagle Computer
 ECS Microsystems
 Epic Computer Products
 Epson America
 Exidy
 Ferranti Computer Systems Ltd
 Forethought Products
 Fortune Systems
 Franklin Computer
 Fujitsu Systems of America
 Future Computers Ltd
 General Digital Industries
 Gifford Computer Systems
 Gimix
 Grid Systems
 Grundy Business Systems Ltd
 Hewlett-Packard
 Honeywell Information Systems
 IBM
 ICL Computers
 IMS International
 Infotecs
 Instrumentation Laboratory
 Intecolor
 Integrated Business Computers
 Intel
 Interactive Systems Technology
 Intertec Data Systems
 Intertechnique
 The IPAC Group
 Ithaca Intersystems
 Kaycomp Computers
 Keuffel & Esser
 LNW Computers
 M/A-COM Office Systems
 Mad Computer
 MAI/Basic Four
 Martec International Electronics
 Matrox Electronic Systems
 MCM Computers
 Mercator Business Systems
 Micro Five Computers
 Micro Source
 Micro Technology Unlimited
 MicroAPL Ltd
 Microbar Systems
 Molecular Computer
 Monroe Systems
 Morrow Designs
 Motorola

Portable Microcomputers (Cont)

Multi-Tech Systems
Multitech Electronics
National Semiconductor
NCR
NEC Information Systems
Nestar Systems
NNC Electronics
North Star Computers
Northern Telecom
Numeritronix
Olivetti
Olympia USA
Omnibyte
Ontel
ONYX Systems
Osborne Computer
OSM Computer
Otrona
Panasonic
Pegasus Data Systems
Personal Micro Computers
Pertec Computer
PHC
Plenary Systems
Point 4 Data
Polaris Microcomputers
Product Associates
Quantum Computer Systems Ltd
Quasar Data Products
Quay
Rair
Rair Ltd
Regency Systems
R2E of America
Sage Computer Technology
Sanyo Business Systems
Scenic Computer Systems
SCI Systems
SCI-COM Computer Systems
Scientific Data Systems
Scientific Micro Systems
SDSystems
Seattle Computer Products
Sierra National
Smoke Signal Broadcasting
Sony
STM Electronics
Sykes Datatronics
Tab Products
TanData
Tandy (Radio Shack)
Tarbell Electronics
Tektronix
Teleraam Communications
TeleVideo Systems
Terak
Texas Instruments
Three Rivers Computer

Torch Computers Ltd
Toshiba America
Trivector Commerce Ltd
Vector Graphic
Victor United
Victory Computer Systems
Wang Laboratories
Wave Mate
Western Digital
Wicat Systems
Wintek
Xerox
Xycom
Xylogics
Zeda Computers International
Zenith Data Systems
Zentec
Zilog

Winchesters

Advanced Storage Technology
Alloy Computer Products
Amcodyne
Ampex
Comark
Computer Memories
Corvus Systems
Cynthia Peripheral
Data General
Dataram
Digital Equipment
DMA Systems
Fujitsu Systems of America
Hewlett-Packard
Hitachi America
International Memories
Maxtor
Megavault Memories
Memorex
Microcomputer Memories
Micropolis
MiniScribe
Mitsubishi Electronics America
Priam
Qualogy
Quantum
Qume
Rodime
Seagate Technology
Shugart
Sunol Systems
U.S. Design
Western Dynex
Xebec
Xiten Systems
Zenith Data Systems

Diskettes

Alpha Micro
Anderson Jacobson

Apple Computer
BGL Technology
Chrislin Industries
Comark
Commodore Business Machines
Franklin Computer
Hewlett-Packard
Infotek
Micro Peripherals
Micro Technology
Micro-Sci
Micropolis
Personal Micro Computers
Remex
Scientific Micro Systems
Shugart
Tandon
TEAC
United Peripherals
Vista Computer
Zenith Data Systems

Add-on Memories

Advanced Micro Devices
Alpha Micro
Alpha Omega Computer Systems
Andromeda Systems
AST Research
Cambex
Central Data
Chrislin Industries
Chromatics
Commodore Business Machines
Computer Extension Systems
Cromemco
Datamac Computer Systems
Davong Systems
Digicomp Research
Dual Systems
Eventide
Forethought Products
General Robotics
Heurikon
IDE Associates
Infotek
G. E. Intersil Systems
Ithaca Intersystems
Matrox Electronic Systems
Microsoft
Microtek
Monolithic Systems
Morrow Designs
MPC Peripherals
Omega MicroWare
PEBX
Plessey Microsystems
Plessey Peripheral Systems
Computer Products Div
Quadram
Quasitronics

Saturn Systems
Seattle Computer Products
SemiDisk Systems
Smoke Signal Broadcasting
SSM Microcomputer
Stellation Two
Systems Group
Tecmar
Teletek
Trendata/Standard Memories
Xedex

Printers

Amdek
Anderson Jacobson
Apple Computer
Axiom
Bytewriter
Canon USA
Commodore Business Machines
Computers International
Comrex International
Data Impact Printers
DataPort
Dataproducts
Diablo Systems
DP-Tek
Epson America
Facit
Fujitsu Systems of America
Hecon
Hewlett-Packard
Integrex
C. Itoh Electronics
ITT Courier Terminal Systems
Leading Edge Products
Memodyne
MEPCOM International
Micro Peripherals
Mitsubishi Electric
Morrow
NEC Information Systems
Okidata
Olivetti
Olympia USA
Panasonic
Printer Products
Qume
Racal-Dana Instruments
Ricoh
Sanyo Business Systems
Smith-Corona
Star Micronics
Syscom
Tandy (Radio Shack)
Toshiba America
Trendcom/3M
Tymshare
Victor Data Products

Vivitar Computer Products
Zenith Data Systems

Display Monitors

Algol Technology
Amdek
Amtron
Bright Up Industries
Comrex International
Crossroads Technologies
Dotronix
Electrohome Ltd
Gigatek Ltd
Ikegami Electronics USA
ISI International
Micro Display Systems
MicroTouch Systems
Microvitec Ltd
Panasonic
Princeton Graphic Systems
Quadram
Sakata USA
Sanyo Business Systems
Stearns Computer Systems
Zenith Data Systems

Modems

American Bell
Astrocom
Atari
Bizcomp
Campbell Scientific
Cernetek
Codex
Coherent Communications
ComData
Commodore Business Machines
Datapoint
Datatronix
Datec
Gandalf Data
General Datacomm Industries
GTE Lenkurt
Hayes Microcomputer Products
Hewlett-Packard
ICOT
Infotron Systems
Microperipheral
Multi-Tech Systems
NEC Information Systems
Novation
Nu Data
Omnitex Data
Prentice
Racal-Vadic
Rixon
Tek-Com
Timeplex
TNW
Tri-Data
Tuck Electronics

U.S. Robotics
Universal Data Systems
Ven-Tel
Visionary Electronics

Local Area Networks

A. B. Dick
Alspa Computer
Altos Computer Systems
Applitek
AT&T Information Systems
Bridge Communications
Codex
Complexx Systems
Computrol
Concord Data Systems
Contel Information Systems
Control Data
Corvus Systems
Data General
Datapoint
Davox
DBS International
Destek
Digital Equipment
Excelan
Gandalf Data
General Instrument
Gould
IBM
Infotron Systems
Interactive Systems/3M
Intersil Systems
Intertec Data Systems
Lanier Business Products
LED Systems
M/A-Com Linkabit
Nestar Systems
Network Systems
Novell
Orchid Technology
Pragmatronics
Prime Computer
Proteon Associates
Protex Industries
Racal-Milgo
Scientific Data Systems
Software Dynamics
Standard Engineering
Stratus Computer
Syntex
Sytek
Technology Concepts
Teletone
Texas Instruments
Ungermann-Bass
Wang Laboratories
Xerox
Zilog

ACCOUNTS PAYABLE

Compatibility Matrix

200.0025.001

Vendor/Package	Compatible Operating Systems															Others	
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	Unix		Xenix
American Business Systems BACS Accounts Payable System			•		•		•			•					•		RM/COS
BOS National BOS/PAYABLES																	BOS/5, MBOS/5
Burroughs Easy Accounts Payable																	BTOS
Champion Software The Champion Accounts Payable			•		•		•			•							
Compact Software International Purchase Ledger			•							•							
Construction Data Control Accounts Payable/Receivable			•		•												
Continental Software CPA Accounts Payable	•																
CYMA CYMA Accounts Payable			•		•		•	•	•	•							CDOS, TurboDOS
Data General CS Accounts Payable																	RDOS
Designers & Builders of Information Systems (DBIS) Accounts Payable			•														TurboDOS
Feith Systems and Software Accounts Payable										•		•			•		
Fisher Business Systems Accounts Payable							•			•							
Groundstar Software Accounts Payable											•						AMOS
HAI Software HAI*Line Accounts Payable			•							•							
INFO Designs Accounts Payable/Checkwriting																	Commodore DOS
Information Unlimited Software (IUS) EasyBusiness Accounts Payable							•										
International Micro Systems (IMS) Accounts Payable			•		•			•									
MC Software Accounts Payable			•		•			•	•	•							
MCBA Accounts Payable							•			•					•	•	RM/COS

Vendor/Package	Compatible Operating Systems															Others
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	Unix	
Micro Data Accounts Payable Contractor Accounts Payable			• •													
Midwest Computer Center Accounts Payable			•													
Open Systems Accounts Payable			•				•	•		•	•				•	•
Peachtree Software Peachpak 8 Accounts Payable			•		•		•			•						
RealWorld Software RealWorld Accounts Payable			•		•		•	•		•	•				•	TurboDOS, MmmOST, RM/COS, RT-11
Software Solutions Accounts Payable														•		
Southwest Systems Accounts Payable													•			
Star Software Systems Star System 1 Accounts Payable			•		•		•	•		•						
State of the Art Accounts Payable	•						•			•				•		
Structured Systems Group (SSG) Accounts Payable			•		•		•	•	•							
Taranto & Associates Accounts Payable/Purchase Order			•				•			•						
TCS Software TCS Payables			•				•			•						
Thoughtware Publishing DTI Bookkeeper II Accounts Payable			•													
Timberline Systems Medallion Accounts Payable							•			•				•		
TLB SOLOMON III Accounts Payable							•			•						

ACCOUNTS PAYABLE

Features Matrix

200.0030.001

Vendor/Package	System Capabilities														
	Account Inquiry	Aging	Auto. Maintenance	Cash Requirements	Check Printing	Check Register	Discount Tracking	Error Checking	Integrated Posting	Mailing Labels	Open/Closed Items	Payment By Date	Purchase Orders	Recurring Payments	Selective Payments
American Business Systems BACS Accounts Payable System		•		•	•	•		•		•				•	
BOS National BOS/PAYABLES	•	•		•	•	•	•		•		•	•	•		•
Burroughs Easy Accounts Payable	•	•		•	•	•	•			•		•			
Champion Software The Champion Accounts Payable	•	•		•	•		•		•			•	•		•
Compact Software International Purchase Ledger	•	•			•	•			•		•	•			
Construction Data Control Accounts Payable/Receivable		•			•				•		•				•
Continental Software CPA Accounts Payable	•	•		•	•	•	•		•	•					
CYMA CYMA Accounts Payable	•	•		•	•	•	•		•	•		•		•	
Data General CS Accounts Payable	•	•		•	•	•	•		•			•			•
Designers & Builders of Information Systems (DBIS) Accounts Payable	•	•	•		•	•		•			•	•			•
Feith Systems and Software Accounts Payable		•		•	•	•	•		•		•	•			
Fisher Business Systems Accounts Payable		•			•	•			•			•		•	•
Groundstar Software Accounts Payable	•	•		•	•	•		•	•			•			•
HAI Software HAI*Line Accounts Payable	•	•		•	•	•	•		•		•	•			•
INFO Designs Accounts Payable/Checkwriting	•	•			•	•			•		•				
Information Unlimited Software (IUS) EasyBusiness Accounts Payable	•	•		•	•	•	•	•	•		•				•
International Micro Systems (IMS) Accounts Payable		•		•	•			•	•		•				
MC Software Accounts Payable	•			•			•		•			•		•	•
MCBA Accounts Payable	•	•		•	•	•	•		•	•		•			•

Vendor/Package	System Capabilities												
	Account Inquiry	Aging	Auto. Maintenance	Cash Requirements	Check Printing	Check Register	Discount Tracking	Error Checking	Integrated Posting	Mailing Labels	Open/Closed Items	Payment By Date	Purchase Orders
Micro Data Accounts Payable Contractor Accounts Payable	• •			• •	• •	• •		• •		• •	• •		• •
Midwest Computer Center Accounts Payable				•		•		•			•		•
Open Systems Accounts Payable	•		•	•	•			•		•			•
Peachtree Software Peachpak 8 Accounts Payable		•		•	•	•		•			•		•
RealWorld Software RealWorld Accounts Payable	•	•		•	•	•		•		•	•		•
Software Solutions Accounts Payable	•	•		•	•	•		•		•			•
Southwest Systems Accounts Payable	•			•		•				•	•		•
Star Software Systems Star System 1 Accounts Payable		•		•	•	•		•				•	
State of the Art Accounts Payable	•			•	•	•		•		•	•	•	
Structured Systems Group (SSG) Accounts Payable		•		•	•	•	•	•			•		•
Taranto & Associates Accounts Payable/Purchase Order	•				•	•	•	•	•	•	•	•	
TCS Software TCS Payables	•	•	•	•	•	•	•				•	•	•
Thoughtware Publishing DTI Bookkeeper II Accounts Payable	•	•						•	•				
Timberline Systems Medallion Accounts Payable	•	•		•	•	•		•			•		•
TLB SOLOMON III Accounts Payable	•	•		•	•	•	•	•		•			•

ACCOUNTS PAYABLE

Product Summaries

AMERICAN BUSINESS SYSTEMS

3 Littleton Rd
Westford MA 01886

(617) 692-2600

► BACS Accounts Payable System

An accounts payable module

Price Vendor declined to provide

Environment Computers: microcomputers under CP/M, CP/M-86, MS-DOS, PC DOS, UNIX, or XENIX. Main storage: 64K bytes for CP/M and CP/M-86, 128K for MS-DOS and PC DOS, and 512K for XENIX and UNIX. Source language: RM/COBOL.

Capabilities Maintains vendor history. Ages invoices. Tracks vendor discounts. Prints checks. Allows recurring payments. Supports accounts at multiple banks. Supports handwritten checks. Permits partial payments. Flags unusually large invoices.

Description The BACS Accounts Payable System helps managers control cash flow and minimize clerical processing costs. The system is completely integrated with the BACS General Ledger System.

Compatibility Matrix: 200.0025.001

Features Matrix: 200.0030.001

BOS NATIONAL INC

2607 Walnut Hill
Suite 200
Dallas TX 75229

(214) 956-7722

► BOS/PAYABLES

An accounts payable program

Price Purchase: \$550 (single user), \$900 (multiuser)

Environment Computers: microcomputers running under BOS/5 or MBOS/5, including the IBM Personal Computer, Digital Equipment PDP 11/03-44, Burroughs B 20, and Sage II and IV. Main storage: not specified. Source language: Microcobol.

Capabilities Menu-driven, open-item accounting. Tracks purchases. Reconciles invoices with purchase orders. Ages accounts. Tracks available discounts. Produces cash requirements forecasts. Prints check preview reports. Interfaces to general ledger and report writing systems.

Description BOS/PAYABLES can be implemented on a variety of mini- and microcomputers under BOS National's BOS/5 single-user, MBOS/5 multiuser, and BOS/NET local area network (LAN) operating systems. BOS/PAYABLES produces reports covering logged in-

voices, the purchase journal, provisional payments, and general ledger analysis. The program can be fully interfaced with BOS/General Ledger. BOS National's Auto-Clerk report writer can access BOS/PAYABLES data files for user-designed reports.

Compatibility Matrix: 200.0025.001

Features Matrix: 200.0030.001

BURROUGHS CORP

Burroughs Pl
Detroit MI 48232

(313) 972-7000

► Easy Accounts Payable

An accounts payable system

Price \$895 purchase

Environment Computers: Burroughs B 20 microcomputer running under BTOS. Main storage: not specified. Source language: not specified.

Capabilities Controls cash assets. Keeps historical vendor purchases, discounts available, and outstanding invoices. Report writer.

Description The Burroughs Easy (Executive Accounting System) Accounts Payable program controls cash assets and determines amounts owed and payment dates. System features include inquiries concerning the status of vendor accounts, a complete payment profile by vendor, identification by check number and vendor invoice number for each invoice paid, and buyer status and open-end vendor inquiries. Output includes cash requirements, cash disbursements journal, vendor check, purchase journal, vendor activity report, period-end summary report, and mailing labels.

Compatibility Matrix: 200.0025.001

Features Matrix: 200.0030.001

CHAMPION SOFTWARE CORP

17310 W Colfax Ave
Suite 250
Golden CO 80401

(303) 278-8666

► The Champion Accounts Payable

An accounts payable program

Price \$295 purchase

Environment Computers: microcomputers running under CP/M, CP/M-86, PC DOS, or MS-DOS. Main storage: 64K bytes. Source language: dBASE II.

Capabilities Tracks invoices and available discounts. Prints checks. Selects invoices for payment by invoice number, vendor number, or date. Allows partial payments. Updates on-order total from purchase order register. Ages accounts. Forecasts cash requirements. Optional automatic interfaces to general ledger and inventory modules.

Description The Champion Accounts Payable can be used as an independent program or with other Champion Business Accounting Software. The entire bookkeeping system can be updated automatically and immediately with a minimum of effort.

Compatibility Matrix: 200.0025.001
Features Matrix: 200.0030.001

COMPACT SOFTWARE INTERNATIONAL LTD

Cape House, Cape PI
Dorking, Surrey
England

(0306) 887373

► Purchase Ledger

An accounts payable program

Price Vendor declined to provide

Environment Computers: microcomputers running under CP/M or MS-DOS. Main storage: 64K bytes. Source language: Microsoft BASIC.

Capabilities Open-item or balance-forward operation. Full interactive, on-screen inquiry into account status. Selectable aging periods. Automatic check printing and reconciliation of bank statements. Comprehensive audit trails. Provides a series of VAT (value-added tax) and vendor performance reports. Optional interface to COMPACT Nominal Ledger.

Description Purchase Ledger, designed specifically for the UK, operates alone, or it operates with COMPACT's other accounting programs to provide complete automation of vendor payments. Purchase Ledger can be structured as either an open-item or balance-forward system.

Compatibility Matrix: 200.0025.001
Features Matrix: 200.0030.001

CONSTRUCTION DATA CONTROL

6140 Northbelt Pkwy
Suite A
Norcross GA 30071

(404) 448-4722

► Accounts Payable/Receivable

An accounting system

Price \$1,500 purchase

Environment Computers: microcomputers running under CP/M, CP/M-86, or PC DOS. Main storage: 64K bytes. Source language: CBASIC, CBASIC-86.

Capabilities Calculates supplier checks based on selected invoices. Permits invoice entry at any point in cycle. Keeps track of advance payments made before the invoice is billed. Prints 1099 forms.

Description Accounts Payable/Receivable is an accounting system that can operate independently or can be linked to Construction Data Control's general ledger or job costing systems. It can distribute the invoice amount to 10 separate general ledger accounts and jobs. The accounts payable segment automatically posts to cash and accounts payable and maintains supplier activity totals. It also calculates supplier checks based on invoices selected for payment. The accounts receivable segment allows invoice entry at any point during its cycle and can track advance payments made before the invoice is billed. Accounts Payable/Receivable prints checks, an open- or closed-item listing, an aging summary for all items, customer statements, and reports that list invoices not yet billed.

Compatibility Matrix: 200.0025.001
Features Matrix: 200.0030.001



CONTINENTAL SOFTWARE

11223 S Hindry Ave
Los Angeles CA 90045

(213) 410-3977

► CPA Accounts Payable

Part of a complete accounting system

Price \$250 purchase

Environment Computers: Apple II+ and IIe. Main storage: 48K bytes. Source language: not specified.

Capabilities Prints checks. Check stubs indicate invoices paid, discounts taken, and net amount paid. Maintains purchase and cash disbursement journals. Accommodates payments to temporary vendors not included in the main vendor file. Produces aging reports that list balances for current, 30-, 60-, 90-, and 150-day accounts. Tracks credit limit. Prints cash requirements report. Prints mailing labels. Optional interface to CPA General Ledger.

Description CPA Accounts Payable handles up to 1,000 transactions per month to a total of 300 vendors. The program allows users to enter and update invoice and voucher information by specifying vendor code numbers. Given the first part of a vendor name, CPA Accounts Payable scans the vendor file and displays the most likely match; the user can then verify or reject the match.

Compatibility Matrix: 200.0025.001

Features Matrix: 200.0030.001

CYMA

2160 E Brown Rd
Mesa AZ 85203

(602) 835-8880

► CYMA Accounts Payable

An accounts payable program

Price \$795 purchase

Environment Computers: most microcomputers running under CP/M, MP/M II, CP/M-86, MP/M-86, PC DOS, MS-DOS, CDOS, or TurboDOS. Main storage: 48K bytes. Source language: CBASIC.

Capabilities Date sensitive. Cash basis or accrual basis accounting. Variable aging with future cash flow projections. Five-character zip codes. Mixed- or multiple-terminal support. Screen-format data entry. Twenty-six vendor terms. Vendor contact field.

Description CYMA Accounts Payable can document customer account activity and then generate invoices, vouchers, checks, and print registers and ledgers. The system provides:

- Complete details on vendor activity
- User-defined variable aging for future and past-due invoices
- Complete invoice details, including date, document number, and transaction number
- Registry of flags of broken check sequence and

voided checks

- Number of days each invoice is past due or number of days left before it is due
- Discounts available
- Percentage and dollar amount of discounts
- Number of days discount can be taken
- Percentage, dollar amount, and length of penalties.

Compatibility Matrix: 200.0025.001

Features Matrix: 200.0030.001

DATA GENERAL CORP

4400 Computer Dr
Westboro MA 01580

(617) 366-8911

► CS Accounts Payable

A multiuser accounting program

Price Vendor declined to provide

Environment Computers: Data General DESKTOP GENERATION Models 10, 20, and 30 under RDOS. Main storage: not specified. Source language: not specified.

Capabilities Maintains current vendor history, updated with last invoice entered or last payment made. On-line, on-screen inquiry. Ages accounts. Prints checks for single or multiple invoices. Handles manual or partial payments. Holds payment for vendor or individual invoice. Produces cash requirements forecast. Optional interface to general ledger.

Description CS Accounts Payable provides a detailed breakdown of the total amount owed, the amount owed to each vendor, and when each invoice is due. The program automatically calculates target payment dates based on vendor terms and discounts. Payments can be made according to these calculated due dates, on an invoice-by-invoice basis, or on a combination of the two methods.

Compatibility Matrix: 200.0025.001

Features Matrix: 200.0030.001

**DESIGNERS & BUILDERS OF
INFORMATION SYSTEMS (DBIS)**

One Mayfair Rd
Eastchester NY 10707

(914) 779-5292
(212) 632-2816

► Accounts Payable

An accounting program

Price \$800 purchase

Environment Computers: microcomputers running under CP/M or TurboDOS. Main storage: configuration dependent. Source language: BASIC.

Capabilities Includes automatic posting by date. Verifies account numbers. Checks arithmetic. Error-checking capability. Processes partial and manual invoice payments. Prints checks and check register. Reports tentative disbursements. User-controlled payment option. Prints purchase journals by accounts and vendor.

Description Accounts Payable processes automatic disbursement of invoice amounts in up to five distribution accounts and provides monthly and yearly account totals. It features a file-delete-and-repack capability that deletes closed invoices permanently or transfers invoices to a history file. Data can be displayed for immediate review to allow the user to update and edit material, while an account listing provides vendor information showing expenses and payments to date.

Compatibility Matrix: 200.0025.001
Features Matrix: 200.0030.001

FEITH SYSTEMS AND SOFTWARE

One Bala Plaza
Suite E-133
Bala Cynwyd PA 19004

(215) 667-5575

► Accounts Payable

Part of a complete accounting system

Price \$1,000 purchase

Environment Computers: microcomputers running under OASIS-16, MS-DOS, or Unix. Main storage: varies. Source language: BASIC.

Capabilities Produces invoices. Processes discounts and payments. Prints checks with vouchers and stubs. Maintains cash disbursement and purchase journals. Aged trial balance. Reports vendor activity. Maintains indexed files. Produces check register. Lists cash requirements and cash disbursements by month and year.

Description Accounts Payable is part of a complete accounting system for single- and multiuser microcomputer systems. The accounts payable module links to the Feith General Ledger and Purchase Order Management systems to maintain purchase and cash disbursements journals. Accounts Payable prints checks with vouchers and stubs and alerts the user to all discounts, whether

taken or not. Output includes such reports as aged trial balance of all open items, open invoices, and all transactions with vendors. Cash requirements and payment transmittal reports are also produced.

Compatibility Matrix: 200.0025.001
Features Matrix: 200.0030.001

FISHER BUSINESS SYSTEMS

1010 Huntcliff Trace
Suite 2215
Atlanta GA 30338

(404) 587-1717

► Accounts Payable

Part of the FBS Business Management System

Price \$600 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, and compatible computers; Texas Instruments Professional Computer. Main storage: 128K bytes. Source language: not specified.

Capabilities Handles recurring invoices, including progressive payments. Number of vendors limited only by disk storage. User-selectable invoice payment by vendor, voucher number, or date range. Allows users to apply or release hold orders against specific invoices. Permits partial payments. Prints checks. Account aging.

Description Accounts Payable can be used independently or combined with general ledger, accounts receivable, and payroll programs to form the FBS Business Management System. Fisher Business Systems also offers a series of programs for industry-specific applications, each of which can be tied to the FBS Business Management System.

Compatibility Matrix: 200.0025.001
Features Matrix: 200.0030.001



GROUNDSTAR SOFTWARE

2160 41st Ave
Suite 206
Capitola CA 95010

(408) 462-5250

► Accounts Payable

An accounting program

Price \$1,000 purchase

Environment Computers: microcomputers running under OASIS; Alpha Micro computers running under AMOS. Main storage: varies. Source language: OASIS BASIC, AMOS BASIC.

Capabilities Prints checks and checkbook statements. Enters partial payments. Automatically posts cash disbursements. Verifies account postings during entry. Displays individual account information. Lists entries separately. Reconciles and verifies all accounts. Provides aging report.

Description The Accounts Payable package performs all payable transactions and provides an aging report for disbursements planning and control. It reconciles and verifies all accounts payable before posting to the general journal and lists entries separately in cost disbursements and vendor invoice journals. The system permits the user to examine current vendor account information whenever necessary.

Compatibility Matrix: 200.0025.001
Features Matrix: 200.0030.001

HAI SOFTWARE

3400-D W MacArthur Blvd
Santa Ana CA 92704

(714) 641-2844

► HAI*Line Accounts Payable

A modular accounts payable program

Price \$495 purchase

Environment Computers: systems running under CP/M or MS-DOS. Main storage: 64K bytes for CP/M, 128K bytes for MS-DOS. Source language: HAI BASIC.

Capabilities Interfaces with the rest of the HAI accounting line. Aged accounts payable report showing payments required by date. Vendor categories for analysis. Cumulative purchase history. Online inquiry of vendor details. Automatic or manual payments. Automatic discounting where allowable.

Description Accounts Payable maintains information on unpaid invoices and, through its reporting and check-printing routines, controls cash going out. The audit control feature provides a hard copy for permanent business records. Accounts Payable is an open-item system, maintaining information on each invoice until it is fully paid. Individual vendors can be run on a balance forward system. Invoices can be paid through computer-produced checks or manually when specific amounts

have to be paid and it is not convenient to do a check-printing run. Discount terms are held for each vendor, and discounts are taken from invoices selected for payment. Invoices and credit memos are entered directly; each transaction can be distributed to up to 50 expense accounts for the general ledger. An audit control report is produced detailing all transactions. This can be used for tracing items from Accounts Payable or even when they show up in the general ledger.

Each invoice has a 6-digit invoice number, and an additional 6-digit reference number can be recorded. A cash requirements report can be printed at any time in one of two forms: (1) showing amounts due aged according to date or (2) in detail showing individual invoices to be paid by the vendor in a specific period. The report can be produced according to the invoice date or invoice due date. Checks can be printed at any time for all invoices dated or due within a certain date range. A manual check can be posted at any time and can be allocated to any vendor by invoice, by group of invoices, as a miscellaneous on-account payment, or as a partial payment to an invoice.

Compatibility Matrix: 200.0025.001
Features Matrix: 200.0030.001

INFO DESIGNS

445 Enterprise Ct
Bloomfield Hills MI 48013

(313) 334-9790

► Accounts Payable/Checkwriting

An accounting program

Price \$80-\$395 purchase

Environment Computers: Commodore 64, CBM 8032, SuperPET. Main storage: 32K bytes. Source language: not specified.

Capabilities Combines invoices according to vendor. Automated checkwriting. Provides automatic aging of open invoices. Menu driven. Maintains vendor master file. Provides online inquiry to vendor file. Password protection. Lists aged open invoices. Produces vendor listing and activity reports. Interfaces with general ledger module.

Description Accounts Payable/Checkwriting automatically combines invoices according to vendor and prints checks with full remittance detail. A series of management reports provide vendor listings and activities and aged open and closed invoice listings. The system features an automatic general ledger account distribution by vendor and allows up to nine distributions for each invoice. A master vendor file includes vendor name, address, telephone number, current balance, and year-to-date purchases.

Compatibility Matrix: 200.0025.001
Features Matrix: 200.0030.001

INFORMATION UNLIMITED SOFTWARE (IUS)

2195 Fortune Dr
San Jose CA 95131

(408) 942-1727

► EasyBusiness Accounts Payable

An accounts payable package

Price \$595 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT. Main storage: 64K bytes. Source language: C.

Capabilities Interactive open-item processing. Automated payment processing. Flexible aging periods. Check printing. Discount proration. Maintains vendor history. Cash requirements forecasting. Detailed audit trail. Interface to general ledger. Handles up to 10,000 vendors.

Description EasyBusiness Accounts Payable automates the vendor payment process, tracking available discounts and printing detailed payment checks. Statistics on prior year and year-to-date purchases are automatically compiled. When combined with the IUS Easy-Business General Ledger package, the accounts payable package automatically posts transactions to the proper ledger accounts.

Compatibility Matrix: 200.0025.001

Features Matrix: 200.0030.001

MC SOFTWARE

PO Box 1377
Davis CA 95617

(800) 824-5952
(916) 756-8104

► Accounts Payable

An accounting system

Price \$600 purchase

Environment Computers: microcomputers running under MS-DOS, Concurrent DOS, CP/M, MP/M II, CP/M-86, MP/M-86, or MS-DOS 2.0. Main storage: 64K bytes. Source language: PL/1.

Capabilities Provides automatic payment selection and user-defined aging periods. Supports 1,000 expense codes. Handles recurring payment. Projects cash requirements. Calculates discounts.

Description Accounts Payable is an accounting system designed for businesses of all sizes. It can be used by members of the bookkeeping staff and requires no extensive computer experience. The system provides automatic payment selection with 1,000 expense codes and uses user-defined aging periods. Discounts are taken automatically. Accounts Payable handles recurring payments and cash requirement projections and provides prompting and error messages in plain English. It performs record and file locking under MP/M II or MP/M-86 and can be interfaced with the Microcomputer Consultants inventory and general ledger systems.

Compatibility Matrix: 200.0025.001

Features Matrix: 200.0030.001

INTERNATIONAL MICRO SYSTEMS (IMS)

6445 Metcalf
Shawnee Mission KS 66202

(913) 677-1137

► Accounts Payable

An accounts payable system

Price \$650 purchase

Environment Computers: any microcomputer running under CP/M, MP/M II, or CP/M-86. Main storage: 64K bytes. Source language: CBASIC.

Capabilities Open voucher system. Capacity of 600 vendors or 5,500 vouchers. Error checking and data validation. Automatic disbursements of items paid each month. Weekly cash requirements. Annual summary of purchases by vendor.

Description The IMS Accounts Payable System provides an automated system for entering open vouchers, paying vendors, and projecting cash requirements. Output includes a vendor master list, open voucher report, automatic disbursements register, monthly register of checks written, paid voucher register, general ledger posting register, and cash requirements report.

Compatibility Matrix: 200.0025.001

Features Matrix: 200.0030.001



MCBA

2441 Honolulu Ave
Montrose CA 91020

(818) 957-2900

► Accounts Payable

An accounting package

Price Vendor declined to provide

Environment Computers: those running under XENIX, UNIX, PC DOS, RM/COS, and MS-DOS. Main storage: 1M bytes; 10MB hard disk required, 20MB recommended. Source language: RM/COBOL.

Capabilities Allows interactive maintenance of vendor files. Allows entry and editing of new accounts payable, adjustments, credits, and prepaid accounts. Provides for flexible payment preparation, including partial payments. Prints accounts payable (A/P) checks. Accesses all functions through menus. Allows full printer spooling capabilities. Supports multiple companies.

Description Accounts Payable is one part of a larger accounting system and fully supports and interfaces with other modules in the system. Interactive entry, editing, and posting of new A/P vouchers are fully supported. Each invoice can be distributed to multiple expense and variance accounts, specifying purchased item numbers and/or job numbers for later interfacing to MCBA's two costing packages. Vouchers can be entered for temporary vendors not in the vendor file. Manually written checks can be recorded against invoices on file, leaving an audit trail. Partial payments can be made either manually or by computer-produced check. Due dates and discount dates can be changed on invoices on file. Checks can be printed any time after payment preparation. Any report generated by Accounts Payable can be spooled to a disk file. The user can later review what reports are currently stored on disk and print reports any number of times, starting from the desired page. Reports include the Vendor File Print Out, listing all vendors on file; the Account Payable Voucher Register and Voucher Distribution Summary Report; The Account Payable Aging Report; and the Cash Requirements Report.

Compatibility Matrix: 200.0025.001
Features Matrix: 200.0030.001

MICRO DATA

5707 Lacey Blvd
Suite 104
Olympia WA 98503

(206) 459-3300

► Accounts Payable System

An accounts payable system

Price \$499 purchase

Environment Computers: those running under CP/M. Main storage: 48K bytes. Source language: CBA-SIC.

Capabilities Data entry through menu selection. Handles up to 9,999 user-defined payee numbers. Interactive data entry and editing routines. Automatic calculation of terms and purchase discounts. Extensive error detection and prevention measures including rejection of invalid payee numbers. User-defined pay periods with cash forecasting. Invoice review program allowing payment of bills based on user-selected priority system. Automatic printing of accounts payable checks and preparation of checks for mailing. Unlimited expense distribution.

Description Accounts Payable is part of a modular accounting system offered by Micro Data and can be fully integrated with other modules from the series. Accounts Payable is designed for measuring cost distribution to individual jobs and measuring cash flow requirements. Printed reports include a master payee list with payment information, alphabetical and numerical master payee list, master check register, cash forecasting report, and term-code/discount-rate schedule.

Compatibility Matrix: 200.0025.002
Features Matrix: 200.0030.002

MICRO DATA

5707 Lacey Blvd
#104
Olympia WA 98503

(206) 459-3300

► Contractor Accounts Payable

An accounting system for CP/M-based computers

Price \$500 purchase

Environment Computers: any CP/M-based computer. Main storage: 48K bytes. Source language: CBASIC 2.

Capabilities Provides menu-selection entry. Allows user-defined customer numbers and service codes. Detects errors and prevents invalid entry. Calculates purchase discounts and includes cash forecasting report with user-defined pay periods. Allows priority payment schedule. Prints master payee listing and master check register. Automatic input to general ledger and job cost systems.

Description The Contractor Accounts Payable accounting system calculates purchase discounts and provides a cash forecasting report with user-defined pay periods. Featuring menu-selection entry and user-defined customer numbers and service codes, the system detects errors and prevents invalid entry. Priority payment schedule is allowed and input to the general ledger and job cost system is automatic. Contractor Accounts Payable prints a master payee listing in alphabetic or numeric sequence and a master check register.

Compatibility Matrix: 200.0025.002
Features Matrix: 200.0030.002

MIDWEST COMPUTER CENTER5785 Merle Hay Rd
Johnston IA 50131

(515) 276-3387

► Accounts Payable

An accounting system

Price \$795 purchase**Environment** Computers: CP/M-based computers. Main storage: 64K bytes. Source language: Microsoft FORTRAN.**Capabilities** Maintains name and address, total purchases to date, and date of last purchase for up to 1,500 vendors. Pays vendor invoices using discount amount and discount due date. Provides distribution of invoice expense when vendor's invoice is entered. Items can be selected for payment by vendor, by due date, or by vendor and invoice number. Payable check reconciliation.**Description** The Accounts Payable accounting system enables the user to monitor payables data and to project essential cash-flow requirements. It permits the user to decide when to pay each voucher, vendor, and due-date item and provides the option of taking every discount or passing.

Accounts Payable interfaces to other Midwest Computer Center accounting programs, including Job Cost Accounting and General Ledger.

Compatibility Matrix: 200.0025.002**Features Matrix:** 200.0030.002**OPEN SYSTEMS**6477 City West Pkwy
Eden Prairie MN 55344

(612) 829-0011

► Accounts Payable

An accounting system for various microcomputers

Price \$695 purchase**Environment** Computers: microcomputers running under CP/M, MP/M II, PC DOS, MS-DOS, OASIS, Unix, or Xenix. Main storage: 64K bytes. Source language: Business BASIC, COBOL.**Capabilities** Enters and prints purchases and miscellaneous debit journals. Processes material requisitions. Prepares and prints checks. Prints cash-flow and vendor-analysis reports. Maintains vendor and open-item files. Performs automatic monthly and year-end file maintenance. Provides password protection. Stands alone or interfaces with other Open Systems accounting programs.**Description** Accounts Payable is an interactive package with multiuser capabilities that allows the user to measure cost distribution and cash flow. Prepaid invoices and installment and partial payments are processed, as well as automated and manual checks. The system permits cash management and expense control and offers parameter selection on reports by vendor,

job, phase, and expense distribution. Open Systems accounting programs also run under various microcomputer local area networks (LANs).

Compatibility Matrix: 200.0025.002**Features Matrix:** 200.0030.002**PEACHTREE SOFTWARE**3445 Peachtree Rd NE
Atlanta GA 30326

(404) 239-3000

► Peachpak 8 Accounts Payable

An accounts payable system for microcomputers

Price \$595 purchase**Environment** Computers: microcomputers running under CP/M, CP/M-86, MS-DOS, or PC DOS. Main storage: varies. Source language: Microsoft BASIC.**Capabilities** Vendor aging report, showing amounts due classified into six time periods. Entry of monthly items for automatic posting of recurring invoices. Invoices can be distributed to a maximum of eight general ledger expense accounts. Ability to apply credits to a specific invoice or as an open credit against a vendor record. Vendor file with complete current and year-to-date information. Cash requirements forecast by due date.**Description** Peachpak 8 Accounts Payable allows complete vendor file maintenance and helps in determining which invoices to pay by due date or discount date or within certain cash requirements. Reports furnished by the package include a complete list of vendors in the file with current and year-to-date amounts and a transaction register that gives a detailed listing of all transactions for the current period in vendor ID order. The system also produces a control report for the end of period, which shows total debits and credits distributed to each general ledger account, as well as detailed listings of all current period transactions and the accounts to which they were distributed.**Compatibility Matrix:** 200.0025.002**Features Matrix:** 200.0030.002

REALWORLD SOFTWARE

Div of MBSI
Dover Rd
Willow Hill Bldg
Chichester NH 03263

(603) 798-5700

► RealWorld Accounts Payable

An accounting system

Price \$650 purchase

Environment Computers: most microcomputers running under CP/M, MP/M-II, CP/M-86, PC DOS, MS-DOS, OASIS, TurboDOS, MmmOST, Unix, RM/COS, or RT-11. Main storage: varies. Source language: RM/COBOL, Micro Focus Level II COBOL.

Capabilities Provides maintenance and lists vendor files. Prints open-item report, cash requirements report, accounts payable checks and the check register, vendor analysis report, and a report showing accounts payable distribution to the general ledger. Allows vendor-account inquiry and flexible payment selection.

Description RealWorld Accounts Payable, an accrual accounts payable system for small businesses, provides vendor file maintenance and lists. It permits entry, editing, and posting of new payables, adjustments, credits, and prepaids and supplies an edit list and journal. The system also allows inquiries into vendor accounts and provides flexible payment selection, including partial payments, with a pre-check-writing report. It prints accounts payable checks and the check register, a report showing accounts payable distributions to the general ledger, and a vendor analysis report. RealWorld Accounts Payable interfaces with the RealWorld general ledger system.

Compatibility Matrix: 200.0025.002
Features Matrix: 200.0030.002

SOFTWARE SOLUTIONS INC

PO Box 301
Muscatine IA 52761

(319) 264-1384

► Accounts Payable

An accounts payable program

Price \$895 purchase

Environment Computers: microcomputers running under the UCSD p-System, including the IBM Personal Computer and Personal Computer XT, Apple II and III, and Sage II and IV. Main storage: 64K bytes. Source language: Pascal.

Capabilities Multicompany accounting. Handles recurring invoices. Provides for partial payments, held invoices, and voided checks. Prints checks, 1099 forms, and monthly cash requirements reports. Maintains vendor history. Tracks discounts. Interactive query, with data routed to printer or screen.

Description Accounts Payable is a multiple-company, open-item accounts payable system that operates alone or as part of an integrated accounting system with other Software Solutions accounting programs. Accounts Payable maintains a complete file on all vendors and reconciles posted invoices with predefined vendor payment terms to take advantage of discounts on a vendor-by-vendor basis. Cash requirements reports prepared by the system are automatically compared to the Accounts Receivable system, if in use, to plot cash requirements against expected revenues rather than current cash on hand.

Compatibility Matrix: 200.0025.002
Features Matrix: 200.0030.002

SOUTHWEST SYSTEMS

44 Third Ave
Suite F
Chula Vista CA 92010

(619) 425-5500

► Accounts Payable

An accounting system

Price \$150 purchase

Environment Computers: Tandy TRS-80 Models I, III, IV. Main storage: 48K bytes. Source language: Microsoft BASIC.

Capabilities Provides online vendor-account viewing or hard-copy proof listings. Computes cash requirements. Pays all invoices by selective payments available and through some specified dates. Accommodates permanent and temporary vendors.

Description The Accounts Payable accounting system provides flexible payment cycles. An open-item system, it has such standard features as invoice batch control totals, online vendor-account viewing or hard-copy proof listings, cash-requirements computation for any specified period, vendor-level automatic partial-payment capability, and invoice-level status-of-payment conditions. The system provides four different selective payments and pays all invoices through some specified dates. A check register of payments corresponds with the check numbers used.

Compatibility Matrix: 200.0025.002
Features Matrix: 200.0030.002

STAR SOFTWARE SYSTEMS

20600 Gramercy Pl
Suite 103
Torrance CA 90501

(213) 538-2511

► Star System 1 Accounts Payable

Part of a complete accounting system

Price \$495 purchase

Environment Computers: microcomputers running under CP/M, MP/M II, CP/M-86, PC DOS, or MS-DOS. Main storage: 64K bytes. Source language: CB86, CB86.

Capabilities Maintains comprehensive vendor information file. Tracks vendor invoices and user purchase orders. Tracks credit limit. Monitors discounts and finance charges. Account aging.

Description Star System 1 Accounts Payable is an automated vendor payable and purchase order tracking system that can be used alone or combined with Star System 1 General Ledger. The accounts payable program produces various reports on vendor account status in addition to printing purchase orders and debit memos. The system is designed for use by general office staff with no computer experience.

Compatibility Matrix: 200.0025.002

Features Matrix: 200.0030.002

STATE OF THE ART

3183-A Airway Ave
Costa Mesa CA 92626

(714) 850-0111

► Accounts Payable

An accounts payable package

Price \$395-\$595 purchase

Environment Computers: Apple II, II+, IIe, and III; IBM Personal Computer; other microcomputers running under MS-DOS, PC DOS, or UCSD p-System. Main storage: varies. Source language: UCSD Pascal.

Capabilities Tracks vendor invoices. Automated check printing. Audit trail. Supports multiple bank accounts. Divisional accounting. Cash requirements forecasting. Maintains vendor history and master file. Optional interface to general ledger.

Description Accounts Payable automates invoice processing and tracks discount opportunities. The system also provides reports detailing purchases and returns for use in invoice reconciliation.

Compatibility Matrix: 200.0025.002

Features Matrix: 200.0030.002

STRUCTURED SYSTEMS GROUP (SSG)

111 Broadway
Suite 203
Oakland CA 94607

(415) 547-1567

► Accounts Payable

An accounts payable system

Price \$595 purchase

Environment Computers: microcomputers running under CP/M, MP/M II, CP/M-86, MP/M-86, or PC DOS. Main storage: 48K bytes. Source language: CBASIC.

Capabilities Aged trial balance. Precheck reports. Aged cash requirements. Vendor history report. Applies credit memos to specified invoices or to next invoice to be paid. Handles manual and voided checks. Check register. Summary accounts distribution. Vendor account list. Allows up to 99 line items per invoice. Interfaces to SSG general ledger, mailing list, or data base programs.

Description The SSG Accounts Payable system increases control over cash flow and payment priorities. Invoices can be specified as held or released for payment; input data can be verified automatically; and checks can be written from stored data, while automatically computing discounts and recording complete payment information on voucher stub checks. In addition, the system writes automatic schedules of payables, summarizes expenses, updates the general ledger, prints checks to pay invoices at specified due dates, and lists payments on a check register.

Compatibility Matrix: 200.0025.002

Features Matrix: 200.0030.002



TARANTO & ASSOCIATES

121 Paul Dr
San Rafael CA 94903

(415) 472-2670

► **Accounts Payable/Purchase Order**

An accounting package

Price \$200 purchase

Environment Computers: microcomputers running under CP/M, MS-DOS, or PC DOS. Main storage: 64K bytes. Source language: BASIC.

Capabilities Generates purchase orders. Key-controlled vendor and invoice files. Processes and prints checks. Creates aged ledger reports. Produces aging summary for all open items. Prints vendor mailing labels. Error checking/correction capability. Posts to general ledger accounts.

Description The Accounts Payable/Purchase Order package is an online interactive accounting system that interfaces fully to the general ledger. This invoice-linked package allows up to eight distributions and automatically creates distribution for freight, discount, and taxes based upon user-defined account numbers. The system posts items to payables when goods are received and produces reports for open- or closed-item listings.

Compatibility Matrix: 200.0025.002

Features Matrix: 200.0030.002

Features Matrix: 200.0030.002

THOUGHTWARE PUBLISHING

PO Box 669
Grants Pass OR 97526

(503) 476-1467

► **DTI Bookkeeper II Accounts Payable**

An accounts payable package for medium-sized businesses

Price \$350 purchase

Environment Computers: microcomputers running under CP/M. Main storage: 30K bytes. Source language: BASIC.

Capabilities Online operation. Report writer. Maintains vendor history and master file. Optional multiuser and disk capabilities. Single-entry debit/credit posting to general ledger.

Description DTI Bookkeeper II Accounts Payable handles payables management, including account aging and general ledger posting. Transactional capacity is limited only by hardware specifications.

Compatibility Matrix: 200.0025.002

Features Matrix: 200.0030.002

TCS SOFTWARE

6100 Hillcroft
Suite 600
Houston TX 77081

(713) 771-6000

► **TCS Payables**

An accounts payable system

Price \$595 purchase

Environment Computers: microcomputers running under CP/M, PC DOS or MS-DOS. Main storage: 56K bytes (8 bit), 85K bytes (16 bit). Source language: Microsoft BASIC.

Capabilities System initialization. Sets today's date. Vendor file maintenance. Vendor file list. Voucher and credit entry. Voucher deletion. Pay selection. Prints checks and check register. Queries vendor status. Transaction register. Cash requirements. Open voucher and aging reports.

Description TCS Payables tracks current and aged accounts payable. Programs provided with the system maintain a complete record for each vendor; help determine which vouchers can be paid by specific dates, according to discount schedules, or within specific cash requirements; and print checks and check registers automatically. Reports produced by the system include an open voucher report, a cash requirements report, and an aged payables report.

Compatibility Matrix: 200.0025.002

TIMBERLINE SYSTEMS

7180 SW Fir Loop
Portland OR 97223

(503) 644-8155

► Medallion Accounts Payable

An accounts payable package

Price \$990 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT and AT, Texas Instruments Professional Computer, Digital Equipment Rainbow 100, AT&T 6300, IBM DisplayWriter, and Sage II and IV running under MS-DOS or UCSD p-System. Main storage: 128K bytes. Source language: UCSD Pascal.

Capabilities Operates on either cash or accrual basis. Multiple company and department processing. Variable period accounting. Check printing. Discount proration. Cash forecasting. Vendor history. Prints 1099 forms. Audit trail. Automatic interface to general ledger.

Description Medallion Accounts Payable streamlines cash management and disbursement. Payments to vendors can be made automatically or selected manually. Detailed or summary journal entries can be posted automatically to the optional Medallion General Ledger.

Compatibility Matrix: 200.0025.002

Features Matrix: 200.0030.002

TLB INC

267 Great Valley Way
Malvern PA 19355

(215) 644-3344

► SOLOMON III Accounts Payable

Part of a complete accounting series

Price \$595 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT, Digital Equipment Rainbow 100. Main storage: 256K bytes. Source language: C.

Capabilities Handles recurring expenses. User-definable purchase terms, including automatic calculation of due dates, discount dates, and discount amounts. Batch entry and update. User-definable aging categories. Prints checks and check preview lists. Optional use of multiple checking accounts.

Description The SOLOMON III Accounts Payable program aids in cash management by providing various reports and up-to-the-minute responses to vendor account status queries.

The SOLOMON III accounting series uses a single data base file to track all accounting records. All transactions from SOLOMON III Accounts Payable can be easily distributed in either summary or detailed form to SOLOMON III General Ledger, Job Costing, and Purchasing.

Compatibility Matrix: 200.0025.002

Features Matrix: 200.0030.002



ACCOUNTS RECEIVABLE

Compatibility Matrix

201.0025.001

Vendor/Package	Compatible Operating Systems															Others	
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	Unix		Xenix
American Business Systems BACS Accounts Receivable System			•		•		•			•					•		RM/COS
BOS National BOS/Receivables and Invoicing																	BOS/5, MBOS/5
Bristol Information Systems BIS Accounts Receivable System			•				•			•							
Burroughs Easy Accounts Receivable																	BTOS
Champion Software The Champion Accounts Receivable			•		•		•			•							
Compact Software International Sales Invoicing System Sales Ledger			• •							• •							
Continental Software CPA Accounts Receivable	•																
CYMA CYMA Accounts Receivable		•	•		•		•	•		•							TurboDOS, CDOS
Data General CS Accounts Receivable																	RDOS
Designers & Builders of Information Systems (DBIS) Accounts Receivable			•														TurboDOS
Feith Systems and Software Accounts Receivable										•		•			•		
Fisher Business Systems Accounts Receivable							•			•							
Groundstar Software Accounts Receivable											•						AMOS/L
HAI Software HAI*Accounts Receivable			•							•							
INFO Designs Accounts Receivable/Billing																	Commodore DOS
Information Unlimited Software (IUS) EasyBusiness Accounts Receivable							•			•							

Vendor/Package	Compatible Operating Systems														Others
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	
International Micro Systems (IMS) Balance Forward Accounts Receivable Open Item Accounts Receivable			• •					• •							
MC Software Accounts Receivable			•		•			•		•					
MCBA Accounts Receivable							•			•				• •	RM/COS
Micro Data Accounts Receivable Membership Billing Utility Billing			• • •												
Midwest Computer Center Accounts Receivable			•												
Open Systems Accounts Receivable			•				•	•		• •				• •	
Peachtree Software Peachpak 8 Accounts Receivable			•		•		•		•						
RealWorld Software RealWorld Accounts Receivable		•	•		•		•	•	•	•	•			• •	TurboDOS, MmmOST, RM/COS
Software Solutions Accounts Receivable													•		Apple Pascal
Southwest Systems Accounts Receivable													•		
Star Software Systems Star System 1 Accounts Receivable			•		•		•	•		•					
Structured Systems Group (SSG) Accounts Receivable			•		•			•		•					
Taranto & Associates Accounts Receivable Balance Forward Membership Accounts Receivable			• •				•			•					
TCS Software TCS Receivables			•				•			•					
Timberline Systems Medallion Accounts Receivable							•			•			•		
TLB SOLOMON III Accounts Receivable							•			•					

ACCOUNTS RECEIVABLE

Features Matrix

201.0030.001

Vendor/Package	System Capabilities												
	Aged Accounts	Audit Trail	Balance Forward	Cash Receipts	Commissions	Credit Control	Customer Reports	Finance Charges	Gen Ledger Interface	Invoices	Open-Item System	Past-Due Notices	Report Writer
American Business Systems BACS Accounts Payable System			
BOS National BOS/Receivables and Invoicing
Bristol Information Systems BIS Accounts Receivable System			
Burroughs Easy Accounts Receivable
Champion Software The Champion Accounts Receivable
Compact Software International Sales Invoicing System Sales Ledger
Continental Software CPA Accounts Receivable
CYMA CYMA Accounts Receivable
Data General CS Accounts Receivable
Designers & Builders of Information Systems (DBIS) Accounts Receivable
Feith Systems and Software Accounts Receivable
Fisher Business Systems Accounts Receivable			
Groundstar Software Accounts Receivable
HAI Software HAI* Accounts Receivable
INFO Designs Accounts Receivable/Billing			
Information Unlimited Software (IUS) EasyBusiness Accounts Receivable

Vendor/Package	System Capabilities												
	Aged Accounts	Audit Trail	Balance Forward	Cash Receipts	Commissions	Credit Control	Customer Reports	Finance Charges	Gen Ledger Interface	Invoices	Open-Item System	Past-Due Notices	Report Writer
International Micro Systems (IMS) Balance Forward Accounts Receivable Open Item Accounts Receivable	•		•	•			•				•	•	•
MC Software Accounts Receivable	•								•				•
MCBA Accounts Receivable	•	•	•	•	•	•	•	•	•	•			•
Micro Data Accounts Receivable Membership Billing Utility Billing	• • •		• • •				• • •	• • •					• • •
Midwest Computer Center Accounts Receivable	•		•	•	•		•	•	•	•	•	•	•
Open Systems Accounts Receivable	•		•	•			•	•	•	•			•
Peachtree Software Peachpak 8 Accounts Receivable	•	•	•	•		•	•	•	•	•			•
RealWorld Software RealWorld Accounts Receivable	•	•	•	•	•		•	•	•		•	•	•
Software Solutions Accounts Receivable	•	•		•			•	•	•				•
Southwest Systems Accounts Receivable	•		•	•				•					•
Star Software Systems Star System 1 Accounts Receivable	•	•	•			•	•		•	•	•		•
Structured Systems Group (SSG) Accounts Receivable	•		•	•			•	•	•	•	•	•	•
Taranto & Associates Accounts Receivable Balance Forward Membership Accounts Receivable	• •		• •	• •		•		• •	• •			•	
TCS Software TCS Receivables	•		•			•	•		•	•	•		•
Timberline Systems Medallion Accounts Receivable	•	•	•	•			•	•	•		•	•	•
TLB SOLOMON III Accounts Receivable	•		•	•		•	•	•	•	•	•	•	•

ACCOUNTS RECEIVABLE

Product Summaries

AMERICAN BUSINESS SYSTEMS

3 Littleton Rd
Westford MA 01886

(617) 692-2600

► BACS Accounts Receivable System

An accounts receivable system

Price \$800-\$1,000 purchase

Environment Computers: microcomputers running under CP/M, CP/M-86, MS-DOS, PC DOS, UNIX, or XENIX. Main storage: 64K bytes under CP/M and CP/M-86, 128K under PC DOS and MS-DOS, and 512K under XENIX and UNIX. Source language: RM/COBOL.

Capabilities Supports open-item and balance-forward processing. Maintains complete customer profiles. Interactive inquiry. Supports user-defined aging categories. Calculates and adds user-defined finance charges to overdue accounts. Optional automatic interface to general ledger.

Description The BACS Accounts Receivable System automates the receivables function from invoice preparation to reconciliation of customer payments. The system allows flexible payment logging, including payment by invoice, payment on account, payment through a specified date, and payment of finance charges. The system also allocates discounts and credits. Customer accounts are closely monitored by the system, and customer statements and turnaround reports are printed on demand.

Compatibility Matrix: 201.0025.001

Features Matrix: 201.0030.001

BOS NATIONAL

2607 Walnut Hill
Suite 200
Dallas TX 75229

(214) 956-7722

► BOS/Receivables and Invoicing

An accounts receivable package

Price Purchase: \$850 (single user), \$1,300 (multiuser)

Environment Computers: any microcomputer running under BOS/5 or MBOS/5. Main storage: not specified. Source language: Microcobol.

Capabilities Open-item or balance-forward accounting. Invoice and statement printing. Account aging. Flexible accounting period. Finance charges calculated on overdue accounts. Maintains customer history files.

Optional interface to general ledger and BOS National AutoClerk report and application generator.

Description BOS/Receivables and Invoicing provides automated control over cash flow and profit margin. The system handles both transaction and management reports. Invoice and credit details are automatically transferred to the proper customer and journal accounts.

Compatibility Matrix: 201.0025.001

Features Matrix: 201.0030.001

BRISTOL INFORMATION SYSTEMS

84 N Main St
Fall River MA 02720

(617) 679-1051

► BIS Accounts Receivable System

One of several accounting modules from Bristol Information Systems

Price \$800 purchase

Environment Computers: IBM Personal Computer, Datapoint and other microcomputers running under MS-DOS and CP/M. Main storage: 32K bytes. Source language: Databus and "BISINESS".

Capabilities Open-item accounting. Interactive inquiry. Detailed and summary account aging. Prints aged or balance-forward statements. Automatic finance charge application. Checks customer credit limits. Forecasts cash flow. Optional automatic interface to general ledger.

Description BIS Accounts Receivable is a multiuser, multicompany accounting module with full password security. Information from customer invoices is automatically distributed to the proper sales and cash receipts journals. The system provides sales analysis by salesman, representative, sales territory, customer, or customer grouping.

Another version of BIS Accounts Receivable System is available for balance-forward accounting applications.

Compatibility Matrix: 201.0025.001

Features Matrix: 201.0030.001

BURROUGHS CORP

Burroughs PI
Detroit MI 48232

(313) 972-7000

► Easy Accounts Receivable

An accounts receivable system

Price \$895 purchase

Environment Computers: Burroughs B 20 microcomputer under BTOS. Main storage: not specified. Source language: not specified.

Capabilities Credit control. Automatic recording of all credit sales and payments. Report writer. Statements. Audit trail.

Description The Burroughs Easy (Executive Accounting System) Accounts Receivable program tracks customer accounts, produces statements, and prints management reports. The system keeps such data as how much each customer owes, how profitable each customer's business is, and the date of the last sale made to each customer. Output includes statements, credit-limit reports, salesperson analyses, complete transaction journals, summary age analyses, and mailing labels.

Compatibility Matrix: 201.0025.001
Features Matrix: 201.0030.001

CHAMPION SOFTWARE CORP

17301 W Colfax Ave
Suite 250
Golden CO 80228

(303) 278-8666

► The Champion Accounts Receivable

An accounts receivable package

Price \$295 purchase

Environment Computers: any microcomputer running under CP/M, CP/M-86, PC DOS, or MS-DOS. Main storage: 64K bytes. Source language: dBASE II.

Capabilities Supports open-item or balance-forward processing. Monitors customer credit limit and balance. Provides point-of-sale invoicing with up to 62 separate sales tax codes. Nine levels of customer discounts. Seven levels of inventory discounts. Records partial payments. Prints customer statements. Sales and gross profit analyses. Optional automatic interface to general ledger and inventory programs.

Description Champion Accounts Receivable can be used as an independent program or in conjunction with other Champion Business Accounting Software. All five modules of the Champion package reside online simultaneously, allowing the entire bookkeeping system to be updated automatically and immediately.

Compatibility Matrix: 201.0025.001
Features Matrix: 201.0030.001

COMPACT SOFTWARE INTERNATIONAL

Cape House, Cape PI
Dorking, Surrey
England

(0306) 887373

► Sales Invoicing System

A billing system with optional parts price list

Price Vendor declined to provide

Environment Computers: microcomputers running under CP/M or MS-DOS. Main storage: 64K bytes. Source language: Microsoft BASIC.

Capabilities Automatically prints and logs invoices and credit memos. Allows users to search for customer records by vendor name or account number. Validates customer credit limits. Maintains optional price list with current terms and markup. Handles cash-and-carry purchases. Produces profitability reports by sales territory, customer, and product. Optional interfaces to sales ledger or nominal ledger.

Description The Sales Invoicing System allows flexible invoice production. Users can specify whether invoices should include information on product codes, descriptions, quantities ordered, unit prices, total prices, discount amounts, and VAT (value-added tax) percentages. The system can operate with or without maintenance of the product file; if the file is maintained, the system can match invoices with a central file of product descriptions, unit prices, and discounts.

Compatibility Matrix: 201.0025.001
Features Matrix: 201.0030.001



COMPACT SOFTWARE INTERNATIONAL

Cape House, Cape PI
Dorking, Surrey
England

(0306) 887373

► **Sales Ledger**

An accounts receivable system designed for the UK

Price Vendor declined to provide

Environment Computers: microcomputers running under CP/M or MS-DOS. Main storage: 64K bytes. Source language: Microsoft BASIC.

Capabilities Open-item or balance-forward accounting. Allows inquiry into account status. Produces customer statements and aged receivables listings. Prints mailing lists. Maintains VAT (value-added tax) reports and analysis statistics. Optional interfaces to invoice, order entry, and nominal ledger systems.

Description Sales Ledger tracks receivables, customer payments, and tax distribution for businesses in the UK. It can be used singly, or it can be used with other Compact Software International accounting modules to form a complete integrated accounting system. VAT statistics, captured at the time of invoice and credit note input, are stored in a special file. A full audit trail is provided so that VAT statistics and reports can be traced to their origins.

Compatibility Matrix: 201.0025.001
Features Matrix: 201.0030.001

CONTINENTAL SOFTWARE

11223 S Hindry Ave
Los Angeles CA 90045

(213) 410-3977

► **CPA Accounts Receivable**

An accounts receivable package

Price \$250 purchase

Environment Computers: Apple II+ and IIe. Main storage: 48K bytes. Source language: not specified.

Capabilities Prints invoices, indicating back ordered items, sales tax, and freight charges. Prints statements. Account aging on 30-, 60-, 90-, and 150-day balances. Supports open-item or balance-forward accounting. Interfaces to general ledger. Prints mailing labels.

Description CPA Accounts Receivable handles up to 300 customers with a total of 1,000 transactions per month. During invoice entry, the program searches through the customer file and displays matching records. This feature eliminates the need for customer numbers or referral codes.

The sales and cash receipts journals are customized by the user while the program is being set up. Journal entry formats are similar to those in manual bookkeeping systems.

Compatibility Matrix: 201.0025.001
Features Matrix: 201.0030.001

CYMA

2160 E Brown Rd
Mesa AZ 85203

(602) 835-8880

► **CYMA Accounts Receivable**

An accounts receivable system for numerous microcomputers

Price \$795 purchase

Environment Computers: microcomputers running under CP/M, MP/M-II, CP/M-86, Concurrent DOS, PC DOS, MS-DOS, CDOS, or TurboDOS. Main storage: 48K bytes. Source language: CBASIC.

Capabilities Open-item and balance-forward receivables. Multilevel security. Display and hard-copy printing of reports. Mixed- and multiple-terminal support. Date sensitivity. Nine-character zip codes. Finance charge and discounts calculated based on terms.

Description The CYMA Accounts Receivable system tracks customer account activity using the open-item, balance-forward, contract, or combination method. Output produced includes a variable aging and future due report, invoices, shipping labels, customer list, labels, and/or word processing files, current period sales analysis, and statements with an optional message area.

Compatibility Matrix: 201.0025.001
Features Matrix: 201.0030.001

DATA GENERAL

4400 Computer Dr
C-228
Westboro MA 01581

(617) 366-8911

► CS Accounts Receivable

An accounts receivable system

Price Vendor declined to provide

Environment Computers: Data General DESKTOP GENERATION Models 10, 20, 30 under RDOS. Main storage: 64K bytes. Source language: Business BASIC.

Capabilities Open-item or balance-forward accounting. Generation of statements. Integrated accounting. Application of customer payments. Easy file maintenance and total file security. Credit-limit warning. On-line inquiry. Customer header generation. Preprinted statements.

Description The CS Accounts Receivable software package generates customer statements, ages customer balances, and provides reports on all customer account activity. System features assist in providing reduced costs, better management reports, improved cash flow, better control of credit limits and sales activity, reduced bank borrowing, and improved customer service. Reports produced include aging reports, sales reports, sales tax reports, and customer activity reports.

Compatibility Matrix: 201.0025.001

Features Matrix: 201.0030.001

**DESIGNERS & BUILDERS OF
INFORMATION SYSTEMS (DBIS)**

One Mayfair Rd
Eastchester NY 10707

(914) 779-5292

► Accounts Receivable

An accounting system

Price \$800 purchase

Environment Computers: microcomputers running under CP/M or TurboDOS. Main storage: configuration dependent. Source language: BASIC.

Capabilities Provides access to up-to-date account status. Monitors transactions for valid account and invoice numbers. Prints hard-copy audit trail. Allows for on-account invoices. Produces monthly statements. Prints detailed aged accounts receivable reports. Provides a daily register that includes totals for sales tax and freight charges.

Description Accounts Receivable is designed to accept both on-account transactions and transactions against specified invoices. The program displays current customer account balance and invoice amount due and lists each transaction with old and new customer account balances. The system can allocate payments covering many invoices and automatically tracks date and amount of last payment. Monthly statements are avail-

able in trial and month-end formats. Aging data is reported as current, 31 to 60 days, 91 to 120 days, and over 120 days.

Compatibility Matrix: 201.0025.001

Features Matrix: 201.0030.001

FEITH SYSTEMS AND SOFTWARE

One Bala Plaza
Suite E-133
Bala Cynwyd PA 19004

(215) 667-5575

► Accounts Receivable

Part of a complete accounting system

Price \$1,000 purchase

Environment Computers: microcomputers running under OASIS-16, MS-DOS, or Unix. Main storage: varies. Source language: BASIC.

Capabilities Processes all invoices and payments. Aged trial balance of all open items. Produces overdue items report. Maintains sales and cash receipts ledgers. Maintains indexed files. Tracks customer credit limits. Interfaces to the Feith Systems and Software Sales Order Entry system.

Description Accounts Receivable is a complete accounts receivable program that features reports such as aged trail balance of all open items, open items for a customer, and all items for a customer. The system also produces a cash receipts and items report by month and year. Sales information by month, year, salesperson, and store is maintained by the system, as well as sales and cash receipt ledgers.

Compatibility Matrix: 201.0025.001

Features Matrix: 201.0030.001



FISHER BUSINESS SYSTEMS

1010 Huntcliff Trace
Suite 2215
Atlanta GA 30338

(404) 587-1717

► Accounts Receivable

Part of the FBS Business Management System

Price \$600 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, and compatible computers; Texas Instruments Professional Computer. Main storage: 128K bytes. Source language: not specified.

Capabilities Online creation and editing of invoices and credit memos. Open-item and balance-forward accounting. Applies payments either to oldest or specified invoice. On-screen inquiry. Maintains sales-tax collection records.

Description Accounts Receivable can be used singly, or it can be used in combination with other Fisher Business System accounting modules to form the integrated FBS Business Management System. Accounts Receivable can also interface to industry-specific application programs offered by Fisher.

Compatibility Matrix: 201.0025.001
Features Matrix: 201.0030.001

GROUNDSTAR SOFTWARE

2160 41st Ave
Capitola CA 95010

(408) 462-5250

► Accounts Receivable

An accounting program

Price \$1,000 purchase

Environment Computers: microcomputers running under OASIS, Alpha Micro computers under AMOS/L. Main storage: varies. Source language: BASIC.

Capabilities Produces invoices. Integrates with sales and general ledger modules. Validates cash receipts for correct customer invoice and general ledger spread. Examines current customer balance. Reports all invoices billed and payments received. Ages open receivables over five categories. Processes debit and credit memos. Prints customer statements. Updates files.

Description Accounts Receivable is an invoice-oriented accounting program that retains and reports all current aging and customer account information. The cash receipts and invoice journals are batch-posted to the general journal after verification of receivables. The system accepts partial payments and validates all cash receipts. A bank-deposit report is produced that lists all cash receipts for deposit.

Compatibility Matrix: 201.0025.001
Features Matrix: 201.0030.001

HAI SOFTWARE

3400-D W MacArthur Blvd
Santa Ana CA 92704

(714) 641-2844

► HAI*Accounts Receivable

An accounting package

Price \$495 purchase

Environment Computers: systems running under CP/M or MS-DOS. Main storage: 64K bytes under CP/M, 128K bytes under MS-DOS. Source language: HAI BASIC.

Capabilities Aged balance report with user-defined aging periods. Cumulative sales history. Customer categories for analysis. Credit limit exception list. Overdue surcharge calculation. Online inquiry about account details. Automatic statement production.

Description Accounts Receivable provides control of accounts receivable and produces detailed reports to highlight overdue accounts. The audit control feature provides a hard copy for permanent business records.

Accounts Receivable operates as an open-item system. Invoices are held within the system until paid, although individual accounts can be set to balance-forward operation. Cash allocation is done invoice by invoice or by lump amount, and open invoices can be reviewed on the posting screen as the cash payments are entered.

A receivable invoice can be distributed over as many as 50 revenue accounts in the general ledger. Each invoice has a 6-digit number and an optional additional 6-digit reference number, which can be a due date or customer order number. A 15-character description can be entered with every invoice.

Cash allocation allows for cases in which the invoices being paid are identified and for cases in which they are not. Partial payments, on-account payments, and settlement discounts are handled within the cash receipts posting. The aged balance report highlights customers with old or overdue balances. The aging period is variable, and 6 columns are shown.

The inquiry features gives the user information on customer account balances and details of unpaid invoices and transaction activity for the current month. The inquiry also shows aged balances. At the end of the month, the statements can be produced automatically. They include a reconciliation brought forward from the previous statements; all transactions entered since the last statement; and the current balance with aging to highlight overdue amounts.

Compatibility Matrix: 201.0025.001
Features Matrix: 201.0030.001

INFO DESIGNS

445 Enterprise Ct
Blomfield Hills MI 48013

(313) 334-9790

► Accounts Receivable/Billing

An accounting program

Price \$80-\$395 purchase

Environment Computers: Commodore 64, CBM 8032, SuperPET. Main storage: 32K bytes. Source language: not specified.

Capabilities Prepares and prints monthly customer statements. Maintains customer master file, including credit limit and current balance. Provides up to nine sales tax rates. Automatically calculates finance charges. Password protection. Produces aged receivables report. Maintains file of unpaid invoices. Interfaces with general ledger module.

Description Accounts Receivable/Billing is a menu-driven program especially suited for retailers, wholesalers, distributors, manufacturers, and service companies. The system provides flexible billing and statement preparation, compiles programs for fast operation, and automatically posts billings to customer receivables records. Both taxable and nontaxable items may be combined on one invoice, and open receivables are aged by 30-, 60-, 90-, and 120-day increments.

Compatibility Matrix: 201.0025.001

Features Matrix: 201.0030.001

INFORMATION UNLIMITED SOFTWARE (IUS)

2195 Fortune Dr
San Jose CA 95131

(408) 942-1727

► EasyBusiness Accounts Receivable

An accounts receivable program

Price \$595 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT. Main storage: 128K bytes. Source language: C.

Capabilities Open-item, balance-forward, or mixed processing. Interactive inquiry to customer and invoice status. Checks customer credit. Automatic finance charge calculations based on user-defined time periods and interest rates. Handles recurring charges. Prints invoices and statements. Optional automatic interface to general ledger.

Description EasyBusiness Accounts Receivable automates the entire receivables function, increasing control over cash flow. The system maintains customer profiles with data on each account's current balance, year-to-date sales, prior year's sales, credit limit, terms of sale, tax status, average time to payment, and last payment.

Compatibility Matrix: 201.0025.001

Features Matrix: 201.0030.001

INTERNATIONAL MICRO SYSTEMS (IMS)

6445 Metcalf
Shawnee Mission KS 66202

(913) 677-1137

► Balance Forward Accounts Receivable

An accounts receivable system

Price \$650 purchase

Environment Computers: any CP/M- or MP/M-based microcomputer. Main storage: 64K bytes. Source language: CBASIC 2.

Capabilities System capacity of 750 to 1,250 accounts. Error checking. Annual billing recap. Statements. Data validation. Registers. Account lists. Report writer.

Description The IMS Balance Forward Accounts Receivable System is designed to automate and maintain a file of accounts. It posts charges and credits to the accounts, prints monthly statements, and prepares trial balances to assist in the collection process. Output includes an account master list, daily postings register, aged trial balance, and general ledger posting register, as well as monthly statements and single account inquiries.

Compatibility Matrix: 201.0025.001

Features Matrix: 201.0030.001

INTERNATIONAL MICRO SYSTEMS (IMS)

6445 Metcalf
Shawnee Mission KS 66202

(913) 677-1137

► Open Item Accounts Receivable

An accounts receivable system

Price \$650 purchase

Environment Computers: any CP/M- or MP/M-based microcomputer. Main storage: 64K bytes. Source language: CBASIC 2.

Capabilities Capacity of 750 to 1,250 accounts. Provides full open-item system with all full or partial invoices remaining on file until paid in full. Directs payment to specified invoices.

Description The IMS Open Item Accounts Receivable System maintains a file of accounts, posts invoices and payments, prints monthly statements, and prepares trial balances and credit letters to assist in the collection process. Output includes a list of accounts, daily/monthly sales register, daily/monthly cash applied register, and aged trial balance, as well as monthly statements, past due letters, and single account inquiries.

Compatibility Matrix: 201.0025.002

Features Matrix: 201.0030.002



MC SOFTWARE

PO Box 1377
Davis CA 95617

(800) 824-5952
(916) 756-8104

► Accounts Receivable

An accounting system

Price \$600 purchase

Environment Computers: microcomputers running on concurrent DOS, CP/M, MP/M II, CP/M-86, or MS-DOS. Main storage: 64K bytes. Source language: PL/1.

Capabilities Supports 1,000 sales categories. Provides prompting and error messages in plain English. Performs record and file locking under MP/M II.

Description Accounts Receivable is an accounting system designed to suit the needs of most businesses. It can be used by members of the bookkeeping staff and requires no extensive computer experience. The system supports 1,000 sales categories and performs record and file locking under MP/M II. All prompts and error messages are in plain English. Accounts Receivable can be interfaced with the Microcomputer Consultants inventory and general ledger systems.

Compatibility Matrix: 201.0025.001
Features Matrix: 201.0030.001

MCBA

2441 Honolulu Ave
Montrose CA 91020

(818) 957-2900

► Accounts Receivable

An accounting package

Price Vendor declined to provide

Environment Computers: those running under XENIX, UNIX, PC DOS, MS-DOS, or RM/COS. Main storage: 1M bytes; 10M-byte disk required, 20M-byte disk recommended. Source language: RM/COBOL.

Capabilities Provides for interactive maintenance of customer and sales person data. Allows entry and editing of sales, credit memos, and debit memos. Allows entry and editing of cash receipts. Allows automatic or manual calculation of finance charges. Prints statements.

Description Accounts Receivable is part of a modular accounting system offered by MCBA and can be fully integrated with other modules from that series.

All information needed for each customer is maintained in the customer file. The customer master record includes a user-defined customer type, balance method, credit limit, terms code, tax code, and instruction to send or not to send a statement. Data entered includes sale amount, miscellaneous charges, sales tax, freight charges, cost, salesperson number, commission amount, and distribution up to 9 sales accounts per invoice. The

user can verify sales, credit and debit memos, and finance charges by printing an edit list before posting them to the accounts receivable open-item file.

Accounts Receivable allows interactive entry and editing of cash receipts with add, change, inquire, and delete capabilities. For open-item customers, invoices can be displayed automatically by date for application of cash, or open credit can be entered. Statements are printed for customers that are to receive statements. Aged subtotals are automatically shown at the bottom of the statement, and the right-hand side of the statement is a remittance advice form designed to be returned by the customer.

Compatibility Matrix: 201.0025.001
Features Matrix: 201.0030.001

MICRO DATA

5707 Lacey Blvd
Suite 104
Olympia WA 98503

(206) 459-3300

► Accounts Receivable System

An accounts receivable system

Price \$499 purchase

Environment Computers: those running under CP/M. Main storage: 48K bytes. Source language: CBA-SIC.

Capabilities Entry through menu selection. Interactive data entry and editing routines. Up to 9,999 customers handled. Automatic calculation of finance charges. Automatic accounts aging at month end (30, 60, 90, 120 days). Automatic input to general ledger module. Billing information for individual customers displayed on demand.

Description Accounts Receivable is part of a modular accounting system offered by Micro Data and can be fully integrated with other modules in that series. The program is a balance-forward accounts receivable system that produces daily invoices and monthly customer statements and maintains detailed aging and delinquency reports on all customers. The system accommodates up to 9,999 customers and up to 999 user-defined service codes, used for identifying charges and payments. Printed reports include a master list of service codes with daily, monthly, and yearly dollar activity reports; monthly customer statements, ready for mailing; alphabetical and numerical customer listings; detailed aging and delinquency reports with last payment amount and date; invoices, ready for mailing; mailing labels; daily and monthly transaction registers; a finance charge report; and disk backup log sheets.

Compatibility Matrix: 201.0025.002
Features Matrix: 201.0030.002

MICRO DATA

5707 Lacey Blvd

#104

Olympia WA 98503

(206) 459-3300

► Membership Billing

An accounting system

Price \$600 purchase**Environment** Computers: any CP/M-based computer. Main storage: 48K bytes. Source language: CBASIC 2.**Capabilities** Calculates finance charges and end-of-month aging. Handles any number of one-time charges. Uses menu-selection entry. Allows user-defined customer numbers and service codes. Detects errors and prevents invalid entry. Prints monthly customer statements, master customer list with aging and delinquency, and transaction registers.**Description** The Membership Billing accounting system bills annually, semiannually, quarterly, or monthly and handles any number of one-time charges. It has menu-selection entry, provides extensive error detection, prevents invalid entry, and allows user-defined customer numbers and service codes. It also provides for the calculation of finance charges and automatic aging at the end of the month. Printed reports include customer statements, master customer list with aging and delinquency, and daily and monthly transaction registers. Membership Billing is integrated with the general ledger system.**Compatibility Matrix:** 201.0025.002**Features Matrix:** 201.0030.002**MICRO DATA**

5707 Lacey Blvd

#104

Olympia WA 98503

(206) 459-3300

► Utility Billing

An accounting system

Price \$995 purchase**Environment** Computers: any CP/M-based computer. Main storage: 48K bytes. Source language: CBASIC 2.**Capabilities** Provides menu-selection entry. User-defined customer numbers and service codes. Extensive error detection and prevention of invalid entry. Handles multiple charges and rates. Calculates finance charges, residential or commercial rates, and state and federal taxes. Prints appropriate statements and reports. Registers transactions.**Description** The Utility Billing accounting system provides menu-selection entry and allows user-defined customer numbers and service codes. The system provides extensive error detection and prevents invalid entry. In addition to controlling multiple charges and

rates, it calculates finance charges, residential or commercial rates, and state and federal taxes. Transactions are registered. Printed output includes annual, semiannual, quarterly, bimonthly, or monthly statements, a customer with aging report, customer listing report, and delinquency and last-payment report.

Compatibility Matrix: 201.0025.002**Features Matrix:** 201.0030.002**MIDWEST COMPUTER CENTER**

5785 Merle Hay Road

Johnston IA 50131

(515) 276-3387

► Accounts Receivable

An accounting system

Price \$1,195 purchase**Environment** Computers: microcomputers running under CP/M. Main storage: 64K bytes. Source language: Microsoft FORTRAN.**Capabilities:** Maintains name and address information for up to 1,500 customers. Provides for online entry and maintenance of invoices for up to 4,800 open items. Automatic creation of accrual sales journal entries and distribution, with user override option. Constant maintenance of customer unpaid balances and accumulation of sales analysis by customer, customer type, and part number. Constant reporting of salesman commission by invoice. Permits cash receipt entry by open item and creates automatic cash receipt journal.**Description** The Accounts Receivable accounting system works with either an open-item or balance-forward system to automatically create accrual, sales, and cash receipt journals for posting to the general ledger system. It computes finance charges, allows for discounts, and provides flexibility in formatting invoices, statements, and sales analysis. The system automatically distributes sales journal information—including sales tax, freight, and discounts—when used with the MCC general ledger package.**Compatibility Matrix:** 201.0025.002**Features Matrix:** 201.0030.002

OPEN SYSTEMS

6477 City West Pkwy
Eden Prairie MN 55344

(612) 829-0011

► Accounts Receivable

An accounting system for various microcomputers

Price \$695 purchase

Environment Computers: microcomputers running under CP/M, MP/M II, OASIS, PC DOS, MS-DOS, Unix, or Xenix. Main storage: 64K bytes. Source language: Business BASIC, COBOL.

Capabilities Enters credit or cash sale invoices and receipts. Prints invoices, sales, credit, and cash receipts journals. Holds or releases invoices for disputed billings. Prints aged trial balance and cash-flow reports. Calculates and prints finance charges. Maintains customer, open-item, and sales-history files. Provides password protection. Prints customer and ship-to-address lists and mailing labels. Stands alone or interfaces with other programs.

Description Accounts Receivable is an interactive multiuser system that produces invoices and statements, as well as detailed aging reports and sales analysis. It offers multiple general ledger period processing and allows unlimited revenue account allocation on invoice entry. While providing gross profit analysis to summarize daily profits, the program also produces detailed sales analysis by customer, salesperson, inventory item, product category, or invoice date. Finance charges and discounts can be calculated from user-defined parameters.

Compatibility Matrix: 201.0025.002
Features Matrix: 201.0030.002

PEACHTREE SOFTWARE

3445 Peachtree Rd NE
Atlanta GA 30326

(404) 239-3000

► Peachpak 8 Accounts Receivable

An accounts receivable package

Price \$595 purchase

Environment Computers: microcomputers running under CP/M, CP/M-86, MS-DOS, or PC DOS. Main storage: varies. Source language: Microsoft BASIC.

Capabilities Automatic calculation of finance charges on average daily balance or ending balance. User-defined minimum finance charge. Ability to post summary or detail transactions to the general ledger. Ability to calculate finance charges on finance charges. Six-digit automatic or manual invoice number. Credit-limit check and customer status examination.

Description Peachpak 8 Accounts Receivable output includes an inventory back order report, as well as customer statements that list all activities of a customer's account. Fourteen types of transactions list freight and

service charges, bad-debt write-off, and miscellaneous credits and debits. A print-invoice option shows the consumer the details of a sale, including date, terms, and "ship-to" and "sold-to" addresses, along with detailed information on each merchandise line.

Compatibility Matrix: 201.0025.002
Features Matrix: 201.0030.002

REALWORLD SOFTWARE

Dover Rd
Willow Hill Bldg
Chichester NH 03263

(603) 798-5700

► RealWorld Accounts Receivable

An accounting system for various microcomputers

Price \$650 purchase

Environment Computers: microcomputers running under CP/M, CP/M-86, Concurrent DOS, MP/M-II, PC DOS, MS-DOS, OASIS, TurboDOS, MmmOST, RM/COS, Unix, or RT-11. Main storage: varies. Source language: RM/COBOL or MicroFocus Level II COBOL.

Capabilities Provides maintenance and lists of salesperson and customer files. Allows editing and posting of sales transaction and cash receipts entries. Permits customer-account inquiry. Calculates finance charges. Prints aging report, statements, commissions-due report, and a report showing accounts receivable distributions to the general ledger.

Description RealWorld Accounts Receivable, an open-item and balance-forward accounting system for small businesses, provides maintenance and lists of salesperson and customer files. It permits editing and posting of sales transaction and cash receipts entries and supplies an edit list and journal. The system allows customer-account inquiry; handles finance-charge calculations, providing an edit list and journal; records commissions due; and prints an aging report, statements, a commissions-due report, and a report showing accounts receivable distributions to the general ledger. RealWorld Accounts Receivable interfaces with the RealWorld General Ledger and can be used with the Sales Analysis system.

Compatibility Matrix: 201.0025.002
Features Matrix: 201.0030.002

SOFTWARE SOLUTIONS

PO Box 301
Muscatine IA 52761

(319) 264-1384

► Accounts Receivable

Provides complete automation of receivables and billing

Price \$895 purchase

Environment Computers: microcomputers running under the UCSD p-System, including the IBM Personal Computer and Personal Computer XT, Apple IIe and III, and Sage II and IV. Main storage: not specified. Source language: Pascal.

Capabilities Multicompany accounts receivable. Produces audit trail. Ages accounts. Allows on-screen inquiry into customer account status. Maintains sales and cash receipts journals and paid-items-removed register. Calculates and applies finance charges on a global or vendor-by-vendor basis.

Description Accounts Receivable can be used singly or as part of an integrated accounting system to track the billing and receivables functions of one or more companies.

Compatibility Matrix: 201.0025.002
Features Matrix: 201.0030.002

SOUTHWEST SYSTEMS

44 Third Ave
Suite F
Chula Vista CA 92010

(619) 425-5500

► Accounts Receivable

An accounting system

Price \$150 purchase

Environment Computers: Tandy TRS-80 Models I, III, 4. Main storage: 48K bytes. Source language: Microsoft BASIC.

Capabilities Provides special payment terms, hard-copy proof listings, and flexible appropriation of payments. Prepares information statement at any time.

Description The Accounts Receivable accounting system assumes a monthly billing cycle. A balance-forward system, it features special payment terms, on-line account viewing, information statements on demand, plain or pre-printed statement forms, 30-, 60-, and 90-day aging, personalized messages on statements, flexible appropriation of payments, credit memos, and customer discounts. It also calculates interest on past-due accounts.

Compatibility Matrix: 201.0025.002
Features Matrix: 201.0030.002

STAR SOFTWARE SYSTEMS

367 Van Ness Way
Torrance CA 90501

(213) 533-1190

► Star System 1 Accounts Receivable

An accounts receivable and order entry system

Price \$495 purchase

Environment Computers: IBM Personal Computer and microcomputers running under CP/M, MP/M II, CP/M-86, or MS-DOS. Main storage: 64K bytes. Source language: CB80.

Capabilities Handles order entry, invoicing, and accounts receivables. Customer records, accessed by customer name or account number, include information on customer address, shipping address, salesperson, price code, discount rate, payment terms, payment and purchase history, and credit limit. Allows unique items to be included in customer invoices. Ages receivables. Optional interface to Star System 1 General Ledger.

Description Star System 1 Accounts Receivable is an automated order entry, invoicing, and accounts receivable system designed for use by general office staff. During order entry, users specify customer name and items ordered, and the system automatically retrieves the proper shipping address and item prices; alternatively, the user can override the system and manually define special items or shipping addresses.

Compatibility Matrix: 201.0025.002
Features Matrix: 201.0030.002

STRUCTURED SYSTEMS GROUP (SSG)

111 Broadway
Suite 203
Oakland CA 94607

(415) 268-1488

► Accounts Receivable

An accounts receivable system

Price \$595 purchase

Environment Computers: microcomputers running under CP/M, MP/M II, CP/M-86, or MS-DOS. Main storage: 48K bytes. Source language: CBASIC.

Capabilities Aged trial balance. Online inquiry, batch proof listings, Accounts distribution reports. Sales reports. Customer statements. Dunning letters. Customer listings.

Description The SSG Accounts Receivable system increases control over all receivables in both balances-forward and open-item billing operations. It can also compute user-specified late charges or interest rates for all customers or specific customers based on any user-specified invoice aging period, including the standard 30-, 60-, and 90-day schedules. In addition, the system can print statements at any interval.

Compatibility Matrix: 201.0025.002
Features Matrix: 201.0030.002



TARANTO & ASSOCIATES

121 Paul Dr
San Rafael CA 94903

(415) 472-2670

► Accounts Receivable Balance Forward

An accounting system

Price \$200 purchase

Environment Computers: microcomputers running under CP/M, PC DOS, or MS-DOS. Main storage: 64K bytes. Source language: BASIC.

Capabilities Transacts each item separately. Discards transactions at end of month. Aged statements. High-speed high-volume system. Eliminates need to enter regular periodic charges. Generates mailing lists by customer or zip code. Allows recurring transactions. Stands alone or interfaces with general ledger system.

Description The Accounts Receivable Balance Forward program is especially suited for credit-card corporations, retail stores, country clubs, and churches. The system permits up to 2,000 customers and 11,000 monthly transactions. It has a full-service charge facility and is based on both a cash and accrual system. Because the program is not invoice oriented, there is no need to enter regular periodic charges. The system can stand alone or be interfaced to the general ledger system, with full departmental fund accounting.

Compatibility Matrix: 201.0025.002
Features Matrix: 201.0030.002

TARANTO & ASSOCIATES

121 Paul Dr
San Rafael CA 94903

(415) 472-2670

► Membership Accounts Receivable

An accounting system

Price \$200 purchase

Environment Computers: microcomputers under CP/M. Main storage: 64K bytes. Source language: BASIC.

Capabilities Enters recurring transactions. Bills periodic charges. Produces aged statements. Calculates service charges. Provides up to 20 dues-rate categories. Prints mailing and shipping labels. Maintains balance-forward cash accounting system. Posts income accounts. Stands alone or interfaces with general ledger system.

Description Membership Accounts Receivable is a balance-forward cash accounting system designed to serve the membership of clubs or organizations. The package can handle up to 8,000 members and 20,000 monthly transactions. A single keystroke enters recurring transactions and bills periodic charges. Up to 38 income accounts are provided for direct posting, and a periodic billing facility is included for dues. The system can stand alone or interface to the general ledger sys-

tem, with fund accounting fully supported.

Compatibility Matrix: 201.0025.002
Features Matrix: 201.0030.002

TCS SOFTWARE

6100 Hillcroft
Suite 600
Houston TX 77081

(713) 771-6000

► TCS Receivables

An accounts receivable program

Price \$795 purchase

Environment Computers: microcomputers running under CP/M, PC DOS, or MS-DOS. Main storage: 56K bytes (8 bit), 85K bytes (16 bit). Source language: Microsoft BASIC.

Capabilities System initialization. Set today's date. Customer file maintenance. Query customer activity. Invoice generation. Transaction entry and deletion. Open credit reconciliation. Statement generation. Aging report. Transaction report. Customer account report. End-of-period processing. File verification.

Description TCS Receivables provides complete invoices and monthly statements and current and aged accounts receivable tracking. The system includes both a customer master file and a transaction file. In addition, the following features are standard:

- Interactive menu-driven programs
- Self-instructing user documentation
- Open-item or balance-forward processing
- Consolidation
- Printing of statements and invoices
- Automatic customer billing
- Summary and detail aging
- General ledger interface
- Month-end file backup
- Recovery routines for hardware failure
- Simple data for demonstrations and training
- Flexible open credit reconciliation
- Check history
- Partial payments

Output includes an aging report, a transaction report, and a customer account report.

Compatibility Matrix: 201.0025.002
Features Matrix: 201.0030.002

TIMBERLINE SYSTEMS7180 SW Fir Loop
Portland OR 97223

(503) 644-8155

► Medallion Accounts Receivable

An accounts receivable package

Price \$990 purchase**Environment** Computers: IBM Personal Computer and Personal Computer XT, and Personal Computer AT, Texas Instruments Professional Computer, Digital Equipment Rainbow 100, AT&T 6300, IBM Display-Writer, and Sage II and IV running under MS-DOS or UCSD p-System. Main storage: 128K bytes. Source language: UCSD Pascal.**Capabilities** Balance-forward or open-item processing. Flexible statement format. Aged trial balance. Calculates finance charges on overdue accounts. Maintains customer history files. Audit trail. Allows delayed and special billings. Optional automatic interface to general ledger.**Description** Medallion Accounts Receivable monitors incoming cash flow and delinquent receivables. The system maintains customer credit profiles and sends past-due notices to overdue accounts.**Compatibility Matrix:** 201.0025.002
Features Matrix: 201.0030.002

All SOLOMON III accounting modules are organized around the same data base file. Updates performed by any of the accounting programs are instantly available to all SOLOMON III programs in the installation.

Compatibility Matrix: 201.0025.002
Features Matrix: 201.0030.002

TLB INC267 Great Valley Way
Malvern PA 19135

(215) 644-3344

► SOLOMON III Accounts Receivable

An accounts receivable program

Price \$595 purchase**Environment** Computers: IBM Personal Computer and Personal Computer XT, Digital Equipment Rainbow 100. Main storage: 256K bytes. Source language: C.**Capabilities** Open-item or balance-forward accounting. Ages accounts based on user-defined categories. Calculates and applies finance charges, with exceptions allowed for individual customers. User-definable finance charge percentage and minimum charge amount. Accepts partial payments, hand-prepared invoices and credit memos, and discounted cash payments. Creates invoices and statements. Produces sales analysis reports. Optional interface to general ledger on summary and detail levels.**Description** SOLOMON III Accounts Receivable automated customer billing and payment. The system is flexible enough to handle manual invoices, cash payments, and recurring invoices produced automatically at user-specified intervals. SOLOMON III Accounts Receivable can be automatically updated by the optional order entry/invoicing system as invoices are produced.

GENERAL LEDGER Compatibility Matrix

202.0025.001

Vendor/Package	Compatible Operating Systems																Others
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	Unix	Xenix	
American Business Systems BACS General Ledger System			•		•		•	•	•	•							
ASK Micro Accounting Plus General Ledger Accounting Plus II General Ledger	•		•					•									
BOS National BOS/LEDGER							•										MBOS/5
Burroughs Easy General Ledger																	BTOS
Champion Software The Champion General Ledger			•		•					•							
Compucount Bookkeeping System													•				
Computech Group SOLOMON-III Fixed Assets SOLOMON-III General Ledger								•		•							
							•			•							
Construction Data Control General Ledger			•		•												
Continental Software CPA General Ledger The Continental General Ledger	•						•			•							
CYMA CYMA General Ledger		•	•		•		•	•	•	•							CDOS, TurboDOS
Data General CS General Ledger																	RDOS
Eagle Enterprises General Ledger			•				•										
Feith Systems and Software General Ledger										•		•			•		
Frontier Software Fixed Asset Management (FAM)			•														
Groundstar Software General Ledger											•						AMOS
Hayden Software General Ledger							•										
Heritage Holdings JEWEL General Ledger							•			•							
INFO Designs General Ledger/Budgeting																	Commodore DOS
Information Unlimited Software (IUS) EasyBusiness General Ledger							•			•							

Vendor/Package	Compatible Operating Systems															Others	
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	Unix		Xenix
International Micro Systems (IMS) Cash Disbursements Posting General Ledger			•		•		•		•	•							
Micro Associates MICA/GL							•			•							
Micro Data Business Forms & Systems General Ledger			•														
Microcomputer Consultants General Ledger			•		•			•	•	•							
Midwest Computer Center General Ledger			•														
Nissim Associates Multi-Currency General Ledger							•										
Occupational Computing Co OCC—General Ledger			•										•				
Open Systems General Ledger			•		•		•	•	•	•	•					•	MBOS/5
Peachtree Software Business Accounting Fixed Assets Business Accounting General Ledger			•				•			•							
RealWorld Software RealWorld General Ledger		•	•		•		•	•	•	•	•				•		MmmOST, TurboDOS, RM/COS, RT-11
Softlink Practical Accountant	•																
Software Solutions Logicaledger														•			
Star Software Systems Star System 1 General Ledger			•		•		•	•		•							
State of the Art Budget & Financial Reporting General Ledger														•	•		
Structured Systems Group (SSG) General Ledger			•		•		•	•	•								
Systems Plus BOOKS! The Electronic Ledger	•		•				•			•							
Taranto & Associates General Ledger/Cash Journal			•				•			•							
TCS Software TCS Ledger			•							•							
Timberline Systems Medallion General Ledger							•			•				•			

GENERAL LEDGER

Features Matrix

202.0030.001

Vendor/Package	System Capabilities										
	Adjustments	Asset Depreciation	Audit Trails	Custom Chart of Accounts	Departments	Double Entry	Foreign Currency	Integrated Posting	Key Ratio Tracking	Period Comparison	Recurring Entries
American Business Systems BACS General Ledger System			•	•	•			•	•	•	•
ASK Micro Accounting Plus General Ledger Accounting Plus II General Ledger			•	•	•	•		•		•	
BOS National BOS/LEDGER			•	•		•		•		•	•
Burroughs Easy General Ledger					•			•	•		•
Champion Software The Champion General Ledger				•	•	•		•		•	
Compucount Bookkeeping System		•	•	•				•			
Computech Group SOLOMON-III Fixed Assets SOLOMON-III General Ledger		•	•	•	•	•		•	•		•
Construction Data Control General Ledger			•			•		•		•	•
Continental Software CPA General Ledger The Continental General Ledger			•	•	•	•		•	•	•	•
CYMA CYMA General Ledger			•	•	•			•	•	•	•
Data General CS General Ledger			•	•	•			•	•		•
Eagle Enterprises General Ledger		•	•	•	•	•			•	•	
Feith Systems and Software General Ledger			•	•	•			•		•	•
Frontier Software Fixed Asset Management (FAM)		•	•								
Groundstar Software General Ledger			•	•	•			•		•	•
Hayden Software General Ledger			•	•	•			•		•	
Heritage Holdings JEWEL General Ledger	•		•	•	•			•		•	•
INFO Designs General Ledger/Budgeting			•	•	•	•		•			
Information Unlimited Software (IUS) EasyBusiness General Ledger			•	•	•	•		•		•	•

Vendor/Package	System Capabilities											
	Adjustments	Asset Depreciation	Audit Trails	Custom Chart of Accounts	Departments	Double Entry	Foreign Currency	Integrated Posting	Key Ratio Tracking	Period Comparison	Recurring Entries	Report Generator
International Micro System (IMS) Cash Disbursements Posting General Ledger			•	•	•	•		•				
Micro Associates MICA/GL				•	•	•		•	•			
Micro Data Business Forms & Systems General Ledger				•	•	•						
Microcomputer Consultants General Ledger			•	•	•	•						
Midwest Computer Center General Ledger			•	•	•	•				•		
Nissim Associates Multi-Currency General Ledger			•	•		•	•					
Occupational Computing Co OCC—General Ledger				•	•			•				•
Open Systems General Ledger			•	•	•	•		•	•	•	•	•
Peachtree Software Business Accounting Fixed Assets Business Accounting General Ledger	•	•	•	•	•	•		•		•	•	
RealWorld Software RealWorld General Ledger	•		•	•	•	•		•		•		
Softlink Practical Accountant				•				•				
Software Solutions Logicaledger				•	•			•		•		
Star Software Systems Star System 1 General Ledger			•	•	•			•		•		
State of the Art Budget & Financial Reporting General Ledger			•	•	•	•		•		•	•	•
Structured Systems Group (SSG) General Ledger			•	•		•		•		•		
Systems Plus BOOKS! The Electronic Ledger	•			•	•	•				•	•	
Taranto & Associates General Ledger/Cash Journal			•	•	•	•		•	•	•		
TCS Software TCS Ledger	•		•	•		•						
Timberline Systems Medallion General Ledger	•		•	•	•	•		•	•	•	•	

GENERAL LEDGER

Product Summaries

AMERICAN BUSINESS SYSTEMS

3 Littleton Rd
Westford MA 01886

(617) 692-2600

► BACS General Ledger System

A financial accounting module

Price Vendor declined to provide

Environment Computers: various micro- and mini-computers. Main storage: 18K bytes. Source language: RM/COBOL.

Capabilities Flexible chart of accounts. Allows up to 99 subsidiaries or divisions, 99,999 accounts per division, and 99 departments per account. Supports 12- or 13-period fiscal year. Maintains historical and budgetary information. Flexible report writer. Detailed and consolidated financial statements. Computes cost of goods, federal and state corporate taxes, and changes in retained earnings. Optional automatic interfaces to accounts receivable, accounts payable, payroll, and inventory modules.

Description The BACS General Ledger System is a fully automated financial system for maintaining timely and complete business records. The system supports firms with up to one billion dollars in assets.

Compatibility Matrix: 202.0025.001
Features Matrix: 202.0030.001

ASK MICRO

100 Blue Ravine Rd
Folsom CA 95630

(916) 985-6555

► Accounting Plus General Ledger

A general ledger accounting program

Price \$595 purchase

Environment Computers: any microcomputer running under CP/M or MP/M. Main storage: 48K bytes. Source language: not specified.

Capabilities Produces income statement and balance sheet, including detailed trial balance. Flexible chart of accounts. Compares prior-year or budget figures to current year. Password protection.

Description Accounting Plus General Ledger is the core program of a set of eight integrated accounting modules from ASK Micro. Transactions from accounts receivable, accounts payable, payroll, inventory, or other accounting programs can be posted automatically to the Accounting Plus General Ledger to provide complete, up-to-date, financial reports.

Manual transaction entry is accomplished through screen-oriented adjustment vouchers. These vouchers make transactions easier to audit and eliminate out-of-balance entries and redundant keystrokes.

Compatibility Matrix: 202.0025.001
Features Matrix: 202.0030.001

ASK MICRO

100 Blue Ravine Rd
Folsom CA 95630

(916) 985-6555

► Accounting Plus II General Ledger

A general ledger accounting system

Price \$595 purchase

Environment Computers: Apple II, Apple II+. Main storage: 48K bytes. Source language: BASIC, Assembler.

Capabilities Income statements and balance sheets. Journal entries. Use of up to 500 account/department charge accounts. Flexible account numbering. Complete auditability. Journal report details all transactions entered; sorts them in data sequence. Journal voucher entry transaction audit list. Detail and summary trial balances. Chart of accounts description file. Account activity reporting.

Description The Accounting Plus II General Ledger System provides numerous general accounting functions basic to the management of any business. Output includes profit and loss statements, as well as various reports, including the following:

- Chart of accounts—Lists all active general ledger accounts in account number sequence
- Department list—Lists all active accounts in department number sequence
- Income statement—Lists all income and expense accounts
- Balance sheet—Lists all assets, liability, and equity accounts and their current balances
- Trial balance—Lists general ledger detail transactions
- Summary trial balance—Lists beginning balances, total credits and debits, and ending balances for each account
- Detail journal—Lists detail transactions in date sequence
- Account activity report—Lists all current-month activity for a specific account.

Compatibility Matrix: 202.0025.001
Features Matrix: 202.0030.001

BOS NATIONAL

2560 Royal Ln
Dallas TX 75229

(214) 484-2717

► BOS/LEDGER

A general ledger program

Price \$550 purchase (single user); \$900 purchase (multiuser)

Environment Computers: microcomputers running under BOS/5 or MBOS/5, including IBM Personal Computer, Personal Computer XT; Texas Instruments Professional Computer; Sage and Pertec computers. Main storage: varies. Source language: MICRO-COBOL.

Capabilities Batch entry validation for debit and credit balance. Produces trial balance and allows interactive query into account status. Maintains account history. Produces reports comparing current figures with previous-year and budgeted amounts.

Description BOS/LEDGER allows users to reformat basic balance sheets and income statements provided with the program. Reports can be produced completely independent of the ledger account structure. Journal entries, accruals, prepayments, and information transferred from the BOS/PAYABLES accounts payable program can be automatically input into the BOS/LEDGER system.

Compatibility Matrix: 202.0025.001
Features Matrix: 202.0030.001

BURROUGHS

Burroughs PI
Detroit MI 48232

(313) 972-7000

► Easy General Ledger

A general ledger system for the Burroughs B 20

Price \$595 purchase

Environment Computers: Burroughs B 20 microcomputer running under BTOS. Main storage: not specified. Source language: not specified.

Capabilities Automatic updating via invoices, accounts receivable, accounts payable, and payroll. Allows budgeting of expenses and income. Tracks profitability. Identifies best sales outlets. Report writer.

Description The Burroughs Easy (Executive Accounting System) General Ledger is a program that handles tracking and posting of payroll, invoices, and accounts payable and receivable to provide information about past performance for use in determining future budgets. The system provides answers to such questions as which expenses affected profits most, which sales accounts produced the best revenue, and what revenue, expenses, and profits were realized during this period. In addition, output such as income statements, balance

sheets, budget reports, trial balance, and general ledger status reports is produced.

Compatibility Matrix: 202.0025.001
Features Matrix: 202.0030.001

CHAMPION SOFTWARE

66 S Van Gordon
Suite 155
Lakewood CO 80228

(303) 987-2588

► The Champion General Ledger

A general ledger and financial management program

Price \$495 purchase (8 bit); \$595 purchase (16 bit)

Environment Computers: any microcomputer running under CP/M, CP/M-86, MS-DOS. Main storage: 64K bytes. Source language: dBASE II.

Capabilities Automatically distributes transactions to the cash receipts, cash disbursements, and general journals, general ledger accounts, and financial statement. Double-entry balancing. Number of departments limited only by disk space. Compares monthly budgeted amounts to actual account balances. Optional automatic interfaces to accounts payable, accounts receivable, inventory, and payroll programs.

Description The Champion General Ledger can run as a single module or as part of The Champion Business Accounting system. As a system, all five modules of the Champion package reside online simultaneously. The entire bookkeeping system can therefore be automatically and immediately updated with minimal effort.

The Champion Business Accounting software is written in compiled dBASE II commands and is supplied with a special run-time version of dBASE II.

A multicompany version of The Champion Business Accounting Software is designed for accountants and handles up to 999 companies.

Compatibility Matrix: 202.0025.001
Features Matrix: 202.0030.001

COMPUCOUNT

PO Box 180046
Austin TX 78718

(512) 454-8823

► Bookkeeping System

A bookkeeping program with general ledger processing functions

Price \$275 purchase

Environment Computers: Tandy TRS-80 Models III, 4. Main storage: 48K bytes. Source language: not specified.

Capabilities Menu driven. Includes easy-to-modify standard chart of accounts. Full asset tracking, including fixed assets, current assets, investments, intangible assets, current liabilities, and long-term liabilities. Prints and reconciles checks. Posts bank deposits, cash transactions, and adjustments.

Description Bookkeeping System provides users with a range of financial management and general ledger processing functions. A full audit trail is maintained for all transactions, and the program can provide transaction reports in transaction or account sequence for all transactions or a specific transaction. The Bookkeeping System can be used on a standalone basis or with Compu-count accounts receivable, accounts payable, payroll, or budgeting program.

Compatibility Matrix: 202.0025.001
Features Matrix: 202.0030.001

COMPUTECH GROUP

Main Line Industrial Park
Lee Blvd
Frazer PA 19355

(215) 644-3344

► SOLOMON-III Fixed Assets

An asset management system

Price \$295 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT; other microcomputers running under MS-DOS. Main storage: 256K bytes. Source language: C.

Capabilities Supports asset depreciation range (ADR) and accelerated cost recovery system (ACRS) depreciation methods. Includes predefined ACRS tables, with facilities for user-defined tables. Maintains three independent depreciation books for financial, federal tax, and state tax reporting. Handles investment tax credit. Tracks year-to-date and accumulated depreciation for each book method.

Description SOLOMON-III Fixed Assets calculates and reports depreciation on any capital investments. The program provides flexibility in the management of all assets, projecting depreciation expenses for planning purposes and maintaining an audit trail of all acquisitions, transfers, asset retirement, and adjustments to de-

preciation amounts. All depreciation transactions are reported to the SOLOMON-III General Ledger program in either detail or summary format.

Compatibility Matrix: 202.0025.001
Features Matrix: 202.0030.001

COMPUTECH GROUP

Main Line Industrial Park
Lee Blvd
Frazer PA 19355

(215) 644-3344

► SOLOMON-III General Ledger

Part of a complete account system

Price \$595 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT; other microcomputers running under MS-DOS. Main storage: 256K bytes. Source language: C.

Capabilities User-definable chart of accounts, with no limit on number of accounts. Supports 12-digit account numbers, with 6 digits for master account and 6 for subaccount category. Maintains account history. Allows 1 to 13 accounting periods per cycle. Provides audit trail. Allows recurring and automatic-reversing journal transactions. Provides standard financial statements. Includes ratio analysis report and report generator for user-defined reports. Allows spooling for batch printing reports and financial statements. Interfaces to other SOLOMON-III accounting modules, including fixed asset management, accounts receivable, accounts payable, and payroll.

Description SOLOMON-III General Ledger is the central core of a complete accounting system. The data entry routines are simple and use on-screen forms; the program provides users with both power and flexibility in financial management and reporting. The built-in report generator enables users to create balance sheets for different profit centers, key ratio reports, or consolidated reports on nonconsecutive journal accounts. SOLOMON-III accepts journal transactions from external sources; this capability enables users to use SOLOMON-III General Ledger with programs marketed by other vendors. Users can also define subsidiary divisions under the SOLOMON-III General Ledger; each subsidiary can maintain its own books on a copy of SOLOMON-III at a remote site, sending summary journals electronically to the main office for use in consolidated financial reporting.

Compatibility Matrix: 202.0025.001
Features Matrix: 202.0030.001

CONSTRUCTION DATA CONTROL

6140 Northbelt Pkwy
Suite A
Norcross GA 30071

(404) 448-4722

► General Ledger

An accounting system

Price Purchase: \$995 (diskette); \$1,500 (disk)

Environment Computers: any computer based on CP/M or CP/M-86. Main storage: 64K bytes. Source language: CBASIC.

Capabilities Receives and posts information. Produces balance sheets and income statements. Provides automatic proof totals.

Description General Ledger is an accounting system that automatically receives and posts information. It can produce balance sheets and income statements for the current month, current quarter, or any of the previous three quarters. Current-year and previous-year totals can also be printed. Double-entry accounting procedures are used. Automatic proof totals are provided to ensure the balance in the separate "books" of the chart of accounts. Printed reports include trial income statements, income statements, trial balance sheets, cash receipts and disbursements, activity listings, and balance sheets, as well as special reports. General Ledger can be used without other programs by using direct posting and the cash journal.

Compatibility Matrix: 202.0025.001
Features Matrix: 202.0030.001

CONTINENTAL SOFTWARE

11223 S Hindry Ave
Los Angeles CA 90045

(213) 410-3977

► CPA General Ledger

A general ledger bookkeeping system

Price \$250 purchase

Environment Computers: Apple II+, IIe. Main storage: 48K bytes. Source language: Applesoft BASIC.

Capabilities Monthly and year-to-date financial reporting. Maintains prior year accounting records. Flexible chart of accounts. Prints journal proof listings and activity reports. Optional interfaces to accounts receivable, accounts payable, payroll, and property management packages.

Description CPA General Ledger provides concise and timely financial information. The system is designed for users with varying levels of experience in accounting and with computers. It includes a modifiable chart of accounts and supports multiple data diskettes; each diskette can handle one profit center with up to 1,000 transactions per month.

Compatibility Matrix: 202.0025.001
Features Matrix: 202.0030.001

CONTINENTAL SOFTWARE

11223 S Hindry Ave
Los Angeles CA 90045

(213) 410-3977

► The Continental General Ledger

Part of a complete, modular accounting system

Price \$395 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT; Texas Instruments Professional Computer running under MS-DOS. Main storage: 128K bytes. Source language: Microsoft BASIC.

Capabilities Interactive posting to general ledger accounts. User-defined chart of accounts for up to six-digit account numbers. Handles up to 20 profit centers. Supports consolidated reporting. Supports fiscal or calendar-year accounting. Provides built-in report generator for user-defined income statements and balance sheets.

Description The Continental General Ledger automates the accounting and financial reporting functions of various businesses. Management tools provided with the program include:

- A report writer flexible enough to allow users to use the income statement as a planning tool. Changes can be made to different assumptions, with the results being displayed in the profit-and-loss statement
- A report that flags any unusual occurrences, including unusual telephone expenses, decreasing profit margins, or sales levels failing to increase in proportion to the advertising expenditure.
- A critical indicator report, indicating the predominant trends in a business.
- A data transfer utility for passing information to VisiCorp VisiCalc, Lotus 1-2-3, or MicroPro WordStar.
- A graphics report generator that produces pie and bar charts.

Compatibility Matrix: 202.0025.001
Features Matrix: 202.0030.001



CYMA

2160 E Brown Rd
Mesa AZ 85203

(602) 835-8880

► CYMA General Ledger

A general ledger system for numerous microcomputers

Price \$795 purchase

Environment Computers: microcomputers running under CP/M, MP/M-II, CP/M-86, MP/M-86, Concurrent PC DOS, PC DOS, MS-DOS, CDOS, TurboDOS. Main storage: 48K bytes. Source language: CBASIC.

Capabilities Audit trails. Subsidiary or complete ledgers. Monthly activity graphs. Trial balance. Funds flow worksheets. Reports and financial statements organized by account and/or department. Budgeting. Job cost analysis.

Description CYMA General Ledger is designed to track all monthly business activity and generate appropriate reports. Output includes budgeting by account and subaccount, financial statements with percentages, budget variance statistics, comparison financial statements, and departmental and consolidated reports. Support is also provided for multiple user-defined formats, special messages, and minimum and maximum parameter settings (which cause the system to automatically print mid ranges), and dollar, percentage, and system reports variance.

Compatibility Matrix: 202.0025.001
Features Matrix: 202.0030.001

DATA GENERAL

4400 Computer Dr
Westboro MA 01580

(617) 366-8911

► CS General Ledger

Part of a complete series of accounting programs

Price Vendor declined to provide

Environment Computers: Data General DESKTOP GENERATION Models 10, 20, 30 running under RDOS. Main storage: not specified. Source language: not specified.

Capabilities Online account status inquiry. Maintains account detail on all year-to-date information. Produces monthly statements and on-demand trial balances. Supports multiple profit centers. Includes built-in report generator. Handles recurring entries. Optional interfaces with other accounting programs in the CS Accounting Series.

Description CS General Ledger is designed to help users collect, manage, and report accounting information efficiently and accurately. The program, designed to serve as the hub of the CS Accounting Series, can also be used on a standalone basis. CS General Ledger provides the controls and audit trails required to ensure data integrity; maintains up-to-date records; and in-

cludes a report writer that produces timely, informative reports for users. Key financial reports produced by the system compare expenses with sales, current figures with previous-year figures, and current figures with budgeted amounts.

Compatibility Matrix: 202.0025.001
Features Matrix: 202.0030.001

EAGLE ENTERPRISES

2375 Bush St
San Francisco CA 94115

(415) 346-1249

► General Ledger

A general ledger and asset management system

Price \$385 purchase

Environment Computers: IBM Personal Computer; microcomputers running under CP/M. Main storage: 64K bytes (8 bits); 96K bytes (16 bits). Source language: COBOL.

Capabilities Menu-driven, double-entry accounting system. Departmentalized financial statements. Fixed asset management with calculation and application of depreciation. Full audit trail. Three-digit department number with five-digit account number. Maintains account history and budget. Prepares comparative reports, with year-to-date, previous-year, and budgeted figures.

Description General Ledger, a fully automated system, ensures that all entries reflect standard accounting practices. Financial records maintained by the system are always kept in balance. The program also produces a variety of management reports that detail the status of every income and expense category, including the ratio between specific income and expenses.

Compatibility Matrix: 202.0025.001
Features Matrix: 202.0030.001

FEITH SYSTEMS AND SOFTWARE

One Bala Plaza
Suite E 133
Bala Cynwyd PA 19004

(215) 667-5575

► **General Ledger**

An accounting system for microcomputers

Price \$1,500 purchase

Environment Computers: microcomputers under OASIS-16, MS-DOS, or Unix. Main storage: 64K bytes. Source language: BASIC.

Capabilities Automatically receives data from other subsystems. Maintains journals. Provides user-defined statements. Stores balances for 13 months. Compares present year-to-date and month-to-date totals with previous year. Produces general ledger, trial balance, income/statement, and balance sheet reports.

Description General Ledger reports include general ledger, trial balance, income statement, and balance sheet. The system handles multiple profit centers and any number of accounts. All financial transactions can be posted in journals, and financial statements can be formatted according to user specifications.

Compatibility Matrix: 202.0025.001
Features Matrix: 202.0030.001

GROUNDSTAR SOFTWARE

2160 41 Ave
Capitola CA 95010

(408) 462-5250

► **General Ledger**

An accounting system

Price \$1,500 purchase

Environment Computers: Alpha Micro computers running under AMOS or any OASIS-based computers. Main storage: configuration dependent. Source language: OASIS BASIC, AMOS BASIC.

Capabilities Produces trial balances, operating statements, and balance sheets. Reports monthly totals for current or past accounting year. Formats all operating statements, balance sheets, and charts of accounts according to user preference. Reports working-capital activity on demand.

Description General Ledger is a comprehensive software package that operates either interactively with other accounting modules or as a standalone system. The program retains 12 month totals for the current accounting year, as well as 12 totals for the past accounting year. Multiple accounting centers may be used for a more detailed account of cost and profit centers, departments, or companies.

Compatibility Matrix: 202.0025.001
Features Matrix: 202.0030.001

FRONTIER SOFTWARE

756 Bowling Green
Cortland NY 13045

(607) 756-8247

► **Fixed Asset Management (FAM)**

An asset management program

Price \$395 purchase

Environment Computers: microcomputers running under CP/M. Main storage: 48K bytes. Source language: CBASIC.

Capabilities Produces depreciation, tax, and investment credit schedules. Supports six depreciation methods, including straight line; sum of the year digits; 125, 150, or 200 percent declining balance; or declining balance with automatic switch to straight line. Allows bonus first-year depreciation. Produces tax return reports.

Description FAM manages assets and determines depreciation for multiple companies or departments. Assets are organized into up to 10 user-defined classes, with individual assets numbered 1 through 999 within each class. FAM produces depreciation schedules projected over the life of an asset; users can compare the effects of using different depreciation methods and choose the most advantageous method.

Compatibility Matrix: 202.0025.001
Features Matrix: 202.0030.001



HAYDEN SOFTWARE

600 Suffolk
Lowell MA 01853

(617) 937-0200
(800) 343-1218

► General Ledger

A general ledger accounting package

Price \$250 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT. Main storage: 64K bytes. Source language: not specified.

Capabilities Interactive posting to general ledger accounts. User-defined chart of accounts and financial statements. Supports departmental profit and cost centers. Provides historical and current budget comparison, reported as dollar amounts or percentages. Thirteen-period year.

Description General Ledger is a menu-driven program designed to increase the speed and accuracy of small business accounting processes and make them easier to audit. General Ledger is easily customized and can function independently or with other Hayden accounting modules.

Compatibility Matrix: 202.0025.001
Features Matrix: 202.0030.001

HERITAGE HOLDINGS

611 Anton Blvd
Suite 720
Costa Mesa CA 92626

(714) 662-6999

► JEWEL General Ledger

Part of a complete accounting system

Price \$975 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, compatible computers; Texas Instruments Professional Computer; Digital Equipment Rainbow 100; TeleVideo computers running under MS-DOS. Main storage: 256K bytes. Source language: BASIC, FORTRAN, SYMBOL.

Capabilities User-definable chart of accounts. Two-level departmentalization. Handles 13-period cycles. Maintains account history and produces previous-year comparisons and year-to-date reports. Automatically posts estimated tax accruals. Adjusts inventory based on gross profit percentage. Includes special journals for reversing entries, recurring entries, and prior-period adjustments. Interfaces to accounts receivable, accounts payable, payroll, job costing, and fixed asset management.

Description JEWEL General Ledger, the central core of the JEWEL Accounting Series, can be used on a standalone basis or with the accounts receivable, accounts payable, and other accounting programs from Heritage. JEWEL General Ledger prints a monthly general ledger, before or after end-of-month close, and oth-

er financial statements. Flexible report formats allow the user to customize the reports for different management levels and divisions. A spreadsheet interface for developing and managing budgets is available for the JEWEL General Ledger.

Compatibility Matrix: 202.0025.001
Features Matrix: 202.0030.001

INFO DESIGNS

6905 Telegraph Rd
Birmingham MI 48010

(313) 540-4010

► General Ledger/Budgeting

An accounting package for any Commodore microcomputer

Price Vendor declined to provide

Environment Computers: Commodore 64, 8032, and SuperPET microcomputers. Main storage: 32K bytes. Source language: not specified.

Capabilities Provides flexible budgeting. User-designed chart of accounts. Permits online inquiry. Displays data on screen for immediate review. Allows up to nine departments per company. Menu driven. Stands alone or interfaces with other modules. Prints consolidated statements. Provides password protection. Maintains historical transaction file.

Description General Ledger/Budgeting is a double-entry accounting system that provides complete audit trails and flexible budgeting by year, quarter, or month, including seasonal factors. The system features easy entry of cash receipts and disbursements and general journal transactions. It produces comprehensive management reports, including trial balance, income statement (with or without budget comparison), balance sheet, and change in financial position. All reports are produced in both summary and detail formats.

Compatibility Matrix: 202.0025.001
Features Matrix: 202.0030.001

INFORMATION UNLIMITED SOFTWARE (IUS)

2401 Marinship Way
Sausalito CA 94965

(415) 331-6700

► EasyBusiness General Ledger

A general ledger accounting system

Price \$595 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT; microcomputers running under MS-DOS. Main storage: 128K bytes. Source language: not specified.

Capabilities Flexible chart of accounts. User-defined account and department numbers. Supports multiple profit and cost centers. Maintains prior year and currently budgeted figures. Detailed audit trails. Closing on a monthly, quarterly, or semiannual basis. Allows recurring entries. Optional automatic interfaces to accounts receivable, accounts payable, inventory control, and payroll programs.

Description EasyBusiness General Ledger automates business bookkeeping, providing timely financial reports. The program provides error detection to ensure data integrity. Account deletions require any remaining balance to be brought to zero, preventing accidental loss and preserving the balance of all debits and credits.

Financial reports generated by the system can be modified to user specifications by the text editor supplied with EasyBusiness General Ledger. The IUS EasyWriter II WP program can also be used to modify reports.

Compatibility Matrix: 202.0025.001
Features Matrix: 202.0030.001

INTERNATIONAL MICRO SYSTEMS (IMS)

6445 Metcalf
Shawnee Mission KS 66202

(913) 677-1137

► Cash Disbursements Posting

A cash accounting system for microcomputers

Price Vendor declined to provide

Environment Computers: any microcomputer running under CP/M, CP/M-86, MP/M-86, MS-DOS, or PC DOS. Main storage: 64K bytes. Source language: CBASIC.

Capabilities Balancing controls at individual transaction and batch level. Disbursement and receipt reporting by general ledger account. Automatic posting to general ledger in summary form.

Description The IMS Cash Disbursements Posting system provides a detailed level of disbursement and receipt reporting. Reports indicate disbursement checks written and cash received by bank deposit, and automatically update the general ledger data files in summary form each month. Checks written and cash received are subdivided into general ledger account and amount and

the appropriate cash accounts updated. Reports include a cash disbursements posting register, a cash receipts posting register, summarized disbursements posting to the general ledger, and summarized receipts posting to the general ledger.

Compatibility Matrix: 202.0025.002
Features Matrix: 202.0030.002

INTERNATIONAL MICRO SYSTEMS (IMS)

6445 Metcalf
Shawnee Mission KS 66202

(913) 677-1137

► General Ledger

A general ledger system for microcomputers

Price Vendor declined to provide

Environment Computers: any microcomputer running under CP/M, CP/M-86, MP/M-86, MS-DOS, or PC DOS. Main storage: 64K bytes. Source language: CBASIC.

Capabilities Handles 750 accounts and 7,000 detail transactions. Error checking and data validation. Consolidation features for multilocation, multidepartment, and multicompny individual and general financial reporting.

Description The IMS General Ledger System processes and reports basic financial data. Output includes a chart of accounts, posting register, trial balance, balance sheet, profit and loss statement, and general ledger list, as well as supporting schedules and detailed account inquiries.

Compatibility Matrix: 202.0025.002
Features Matrix: 202.0030.002

MICRO ASSOCIATES

2300 Highway 365
Suite 510 LB 131
Nederland TX 77627

(409) 724-6583

► MICA/GL

A general ledger accounting package

Price \$395 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT; microcomputers running under MS-DOS. Main storage: not specified. Source language: not specified.

Capabilities Double-entry accounting with full error checking. User-definable chart of accounts, with three- to six-digit account numbers. Departmentalization of accounts for up to 99 departments. Master and Subaccount listings for balance sheets and operating statements.

Description MICA/GL can be used alone or with other MICA Accounting Series programs. In addition to standard accounting reports, (e.g., trial balances, income statements, balance sheets), MICA/GL offers a variety of management-level reports designed to alert the user to changes in financial position. All reports can be produced for consolidated, departmentalized, or income and expense ledger accounts.

Compatibility Matrix: 202.0025.002
Features Matrix: 202.0030.002

MICRO DATA BUSINESS FORMS & SYSTEMS

5707 Lacey Blvd
#104
Olympia WA 98503

(206) 459-3300

► General Ledger

An accounting system for CP/M-based computers

Price \$500 purchase

Environment Computers: any CP/M-based computer. Main storage: 48K bytes. Source language: CBASIC 2.

Capabilities Provides menu-selection entry and user-defined customer numbers and service codes. Detects errors and prevents invalid entry. Handles job and control numbers on selected accounts. Prints daily detail and summary journals, monthly cash receipts, payroll, chart of accounts, balance sheet, and historical data.

Description The General Ledger accounting system handles job control numbers on selected accounts and provides complete reports on daily detail and summary journals, monthly cash receipts, disbursement, sales, payroll and general journals, chart of accounts, operating statements by department, balance sheet, and historical data. The system also provides menu-selection entry, extensive error detection, and prevention of invalid

entry. It allows user-defined customer numbers and service codes.

Compatibility Matrix: 202.0025.002
Features Matrix: 202.0030.002

MICROCOMPUTER CONSULTANTS

PO Box 1377
Davis CA 95617

(800) 824-5952
(916) 756-8104

► General Ledger

An accounting system

Price \$600 purchase

Environment Computers: microcomputers running under CP/M, CP/M-86, MP/M-II, MP/M-86, MS-DOS. Main storage: 64K bytes. Source language: PL/1.

Capabilities Provides 10-digit user-defined account numbers. Supports up to 99 departments and up to 100 separate companies. Provides financial statements by individual department or entire company. Performs record and file locking under multiuser systems.

Description General Ledger is an accounting system designed for use by the bookkeeping staff and requires no extensive computer experience. Account numbers are user defined. Financial statements are available by individual department or for the entire company.

Compatibility Matrix: 202.0025.002
Features Matrix: 202.0030.002

MIDWEST COMPUTER CENTER

5785 Merle Hay Rd
Johnston IA 50131

(515) 276-3387

► General Ledger

An accounting system for CP/M-based microcomputers

Price \$795 purchase

Environment Computers: CP/M-based computers. Main storage: 64K bytes. Source language: Microsoft FORTRAN.

Capabilities Supports over 510 accounts with account numbers of up to eight digits. Provides for 5,000 journal entries per diskette and for automatic proof of valid accounts and journal in balance. Permits automatic posting of journals to the ledger. Provides trial balance of individual accounts, range of accounts, or division. Maintains both month-to-date and year-to-date account balances.

Description The General Ledger accounting system creates detailed nondestructive audit trails. The journal-driven double-entry system provides for full account-number and balance verification at entry. As it checks information being entered through the journals, the system prevents the user from making a wrong entry to a nonexistent account. It also provides for divisionalized reporting, with automatic consolidation of divisions. General Ledger expands to accommodate new accounting formats as user needs grow.

Compatibility Matrix: 202.0025.002
Features Matrix: 202.0030.002

NISSAM ASSOCIATES

2714 Pine St
San Francisco CA 94115

(415) 563-6170

► Multi-Currency General Ledger

A foreign currency accounting package

Price \$3,800 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT. Main storage: 64K bytes. Source language: BASICA.

Capabilities General ledger accounting with full detail on all ledger accounts. Captures and stores foreign currency transactions in original currencies. Revalues currencies and generates currency position reports on demand. Produces due-to/due-from reports, allowing system to perform as a customer liability system.

Description Multi-Currency General Ledger is designed for banks or corporations that deal with more than one currency and need accurate information on both currency positions and gains and losses resulting from currency movement. The menu-driven system captures all foreign currency transactions in their original currencies. Account consolidations are accomplished by converting currencies at a user-specified base currency,

with revaluation being performed as often as required. Gains or losses from currency movement can be posted to an income/expense account for rate fluctuations.

Compatibility Matrix: 202.0025.002
Features Matrix: 202.0030.002

OCCUPATIONAL COMPUTING COMPANY (OCC)

22311 Ventura Blvd
Suite 123
Woodland Hills CA 91364

(213) 999-1919

► OCC-General Ledger

An accounting system for Zilog Z80 computers

Price \$495 purchase

Environment Computers: Zilog Z80 computers based on TRSDOS or CP/M. Main storage: 64K bytes. Source language: MBASIC.

Capabilities Provides simple chart setup and standard or custom chart of accounts. Performs flexible journal entry and flexible financial-statement generation. Writes selective journal reports.

Description OCC-General Ledger is an accounting system that combines with other systems to provide automatic or manual posting of general ledger transactions. It produces customized financial statements. Features include simple chart setup, standard or custom chart of accounts, flexible journal entry, selective journal reports, and flexible financial-statement generation (balance sheet, income statement, and journals). The system can be expanded to a client-write-up package. Interfacing systems include OCC-Accounts Receivable and Billing, OCC-Accounts Payable, OCC-Payroll, and OCC-Fixed Assets and Depreciation.

Compatibility Matrix: 202.0025.002
Features Matrix: 202.0030.002

OPEN SYSTEMS430 Oak Grove
Minneapolis MN 55403

(612) 870-3515

► General Ledger

An accounting package for various microcomputers

Price \$695 purchase**Environment** Computers: microcomputers running under CP/M, CP/M-86, MP/M-II, MP/M-86, MS-DOS, PC DOS, OASIS, MBOS/5; Apple Lisa 2 running under Xenix. Main storage: 64K bytes. Source language: Business BASIC, COBOL.**Capabilities** Prints general ledger journal and activity reports. Maintains general ledger accounts and recurring entries files. Prints trial balance, income statements, and balance sheets. Performs automatic clear, close, and consolidation of accounts. Designs financial statement formats. Prints chart of accounts and recurring entries lists. Stands alone or interfaces with other modules, including the Team Manager report writer. Provides password protection.**Description** General Ledger is an interactive multi-user program that features actual, budget, and historical data and custom reports. It maintains accounts with activity balances for 13 accounting periods. The system can accommodate alphanumeric account numbers of up to 12 characters and provides automatic balancing control during data entry to ensure debit/credit balance. In addition, it offers multiple period posting and password protection for data securing. All Open Systems Accounting Software modules are compatible with local area network (LAN) systems.**Compatibility Matrix:** 202.0025.002
Features Matrix: 202.0030.002

PEACHTREE SOFTWARE3445 Peachtree Rd NE
Atlanta GA 30326

(404) 239-3000

► Business Accounting Fixed Assets

An asset management and depreciation scheduling package

Price \$595 purchase**Environment** Computers: IBM Personal Computer, Personal Computer XT; Texas Instruments Professional Computer; COMPAQ COMPAQ Portable Computer; microcomputers running under MS-DOS. Main storage: 128K bytes. Source language: Microsoft BASIC.**Capabilities** Provides consistent asset accounting, verifying addition or deletion of assets conforming to current and prior tax laws. Financial book, tax book, and optional state tax book for reporting depreciation. Five depreciation methods, with five user-defined declining balance percentages. Five property classifications, with up to eight asset classifications. Tracks current-year bonus depreciation.**Description** Business Accounting Fixed Assets manages depreciation accounting and can aid users in preparing tax returns. The program calculates the investment tax credits for assets allowed under the Economic Recovery Tax Act (ERTA) of 1981 and the Tax Equity and Fiscal Responsibility Act (TEFRA). Business Accounting Fixed Assets can be used as a standalone package or with the Peachtree Business Accounting General Ledger system. When used with the general ledger package, depreciation figures are automatically transferred to the proper ledger accounts.**Compatibility Matrix:** 202.0025.002
Features Matrix: 202.0030.002

PEACHTREE SOFTWARE3445 Peachtree Rd NE
Atlanta GA 30326

(404) 239-3000

► Business Accounting General Ledger

A general ledger system

Price \$595 purchase**Environment** Computers: any microcomputer running under CP/M, MS-DOS, PC DOS. Main storage: varies. Source language: Microsoft BASIC.**Capabilities** Master and subsidiary accounts. Flexible chart of accounts set up to incorporate user's current account books. Supports year-to-date total of up to \$21,000,000. Financial statements with subsidiary statements. Offers 100 departments with 10 summary departments. Automatic updating of current earnings and retained earnings accounts. User-defined formatting and eight user-defined source codes for identifying transactions posted to general ledger. Automatically assigns batch numbers for data entry control. Handles recurring entries.**Description** The Business Accounting General Ledger package allows user access to areas of financial recording and can be used independently or concurrently with other Peachtree Business Accounting modules. The chart of accounts can be entered, changed, deleted, or queried. The system can also give a list of the master file, in which each account is listed with all or only part of the information stored. Examination of account status allows the user to survey selected accounts. A report of each general ledger account number and amount transferred from other modules can be listed in the transfer summary journals control report.**Compatibility Matrix:** 202.0025.002
Features Matrix: 202.0030.002

REALWORLD SOFTWARE

Dover Rd
Willow Hill Bldg
Chichester NH 03263

(603) 798-5700

► RealWorld General Ledger

An accounting system for various microcomputers

Price \$650 purchase

Environment Computers: microcomputers running under CP/M, CP/M-86, MP/M-II, MP/M-86, Concurrent PC DOS, MS-DOS, PC DOS, Mmmost, Turbodos, Unix, OASIS, RT-11, RM/COS. Main storage: not specified. Source language: RM/COBOL, Micro Focus Level II COBOL.

Capabilities Supports 13 accounting periods and multiple profit centers. Maintains and lists chart of accounts. Allows general and standard journal transaction entry, editing and posting, and online general ledger account inquiry. Prints working trial balance and regular trial balance, source cross-reference report, and financial statements.

Description RealWorld General Ledger is an extremely flexible accounting system for small businesses. It supports multiple profit centers and can handle up to 13 accounting periods. The system maintains and lists a chart of accounts and provides general and standard journal transaction entry and editing and posting, with edit lists and journals. In addition, it prints the working trial balance and regular trial balance worksheets. Online inquiry into the general ledger account is allowed, and, if disk space permits, transaction detail can be stored for the year. The source cross reference report and the financial statements can be printed in user-defined formats. RealWorld General Ledger has a flexible year-end closing procedure and interfaces with the RealWorld accounts receivable, accounts payable, and/or payroll systems.

Compatibility Matrix: 202.0025.002
Features Matrix: 202.0030.002

the Practical Accountant handles both accounts payable and accounts receivable. Practical Accountant uses a 2-diskette drive system that handles up to 634 transactions per year.

Compatibility Matrix: 202.0025.002
Features Matrix: 202.0030.002

SOFTWARE SOLUTIONS

PO Box 301
Muscatine IA 52761

(319) 264-1384

► Logicaledger

A general ledger system

Price \$895 purchase

Environment Computers: microcomputers running under the UCSD p-System, including the IBM Personal Computer, Personal Computer XT; Apple IIe, III; Sage II, IV. Main storage: not specified. Source language: not specified.

Capabilities Up to 1,500 ledger accounts, with flexible chart of accounts. Supports multiple profit centers within a single company or multiple companies. Maintains account history. Integrates with other Software Solutions accounting programs.

Description Logicaledger supports the accounting needs of small- to medium-sized businesses; public accountants can also use Logicaledger to process the books of client companies. In addition to handling multiple profit centers, Logicaledger allows users to perform profit-and-loss comparisons on up to 24 months of previous financial data. Users can also develop budgets for each income or expense account. Logicaledger runs on disk-based systems; a diskette-based version, Lit-ledger, is also available.

Compatibility Matrix: 202.0025.002
Features Matrix: 202.0030.002

SOFTLINK

3255-2 Scott Blvd
Santa Clara CA 95051

(408) 988-8011

► Practical Accounting

A general ledger program for small businesses

Price \$150 purchase

Environment Computers: Apple II, II+, IIe. Main storage: 64K bytes. Source language: not specified.

Capabilities User-definable chart of accounts. Up to 50 categories with 300 subcategories and 20 tax definitions. Prints checks and maintains check register.

Description Practical Accountant is a single-entry bookkeeping system designed for small-business accounting. In addition to maintaining the general ledger,



STAR SOFTWARE SYSTEMS

20600 Gramercy PI
Suite 103
Torrance CA 90501

(213) 538-2511

► Star System 1 General Ledger

A fully automated general ledger system

Price \$495 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT; microcomputers running under CP/M, MP/M-II, CP/M-86, MS-DOS. Main storage: 64K bytes. Source language: CB80.

Capabilities User-definable chart of accounts with unlimited number of accounts. Maintains account history with current, month-to-date, quarter-to-date, and year-to-date financial reports. Compares actual account figures with amounts budgeted. Works on standalone basis or with complete interfaces to accounts receivable, accounts payable, payroll, or legal time-and-billing systems.

Description Star System 1 General Ledger is a fully automated general ledger system that records all financial transactions for small businesses and professional offices. Transactions are entered through six journals: cash receipts, cash disbursements, sales, purchases, payroll, and general journal. When used with other Star Software accounting modules, information is automatically transferred into the proper ledger account. Star System 1 General Ledger produces trial balances, balance sheets, income statements, and transaction registers on a companywide or departmental basis.

Compatibility Matrix: 202.0025.002
Features Matrix: 202.0030.002

Compatibility Matrix: 202.0025.002
Features Matrix: 202.0030.002

STATE OF THE ART

3183-A Airway Ave
Costa Mesa CA 92626

(714) 850-0111

► General Ledger

A general ledger accounting package

Price \$395-\$595 purchase

Environment Computers: Apple II, II+, IIe, III; IBM Personal Computer. Main storage: varies. Source language: UCSD-Pascal.

Capabilities Complete journal entry and audit trails. Produces income statement and balance sheet on demand. Flexible chart of accounts. Disk compatibility. Optional interfaces to other accounting modules.

Description General Ledger is a fast, easy-to-use, and accurate bookkeeping system that produces timely and comprehensive financial reports. It can handle up to 800 journal accounts. When used with General Ledger, other modules of the State of the Art accounting series automatically transfer information to General Ledger.

Compatibility Matrix: 202.0025.002
Features Matrix: 202.0030.002

STATE OF THE ART

3183-A Airway Ave
Costa Mesa CA 92626

(714) 850-0111

► Budget & Financial Reporting

A financial accounting package

Price \$395-\$595 purchase

Environment Computers: Apple II, II+, IIe, III; IBM Personal Computer. Main storage: varies. Source language: UCSD-Pascal.

Capabilities User-defined financial reports. Flexible account numbering. Automatic audit trails. Interface to general ledger.

Description The Budget & Financial Reporting system expands the State of the Art General Ledger system to include budgeting and account history information. It provides divisional, departmental, budgetary, and comparative reporting, with full user control over report formats. The system automatically posts recurring journal entries.

STRUCTURED SYSTEMS GROUP (SSG)

5204 Claremont Ave
Oakland CA 94618

(415) 547-1567

► General Ledger

A general ledger system

Price \$595 purchase

Environment Computers: any microcomputer running under CP/M, MP/M, CP/M-86, MP/M-86, PC DOS. Main storage: 48K bytes. Source language: CBASIC.

Capabilities Income statements. Supporting schedules. Balance sheets. Chart of accounts. General ledger report. Accounts distribution report. Trial balance.

Description The SSG General Ledger system provides accurate data entry and financial reporting. System features include verification of all data input, totals entries to check balances, account numbers with the chart of accounts, and proofing of input data onto paper for auditing. In addition, the system can produce audit trails that document every step of the accounting cycle, from source documents to financial statements.

Compatibility Matrix: 202.0025.002
Features Matrix: 202.0030.002

SYSTEMS PLUS

1120 San Antonio Rd
Palo Alto CA 94303

(415) 969-7047

► BOOKS! The Electric Ledger

A bookkeeping system

Price \$350 purchase

Environment Computers: Apple II+, IIe; IBM Personal Computer, Personal Computer XT; other computers running under CP/M or MS-DOS. Main storage: not specified. Source language: C.

Capabilities User-modifiable chart of accounts using 30-character-long account names or optional account numbers. Page-oriented journal entry. Ensures proper balance of debits and credits. Produces balance sheets and income statements at any time for current or previous periods. Allows job cost budgeting and offers four levels of account summaries. Optional budgeting, recurring entry, invoicing, and check writing modules.

Description BOOKS! is a visually oriented accounting system. On-screen forms, similar to standard ledger pages, are displayed by the system. Users make entries into journal accounts directly on the ledger page. BOOKS! allows users to associate any account with any other account. Cash accounts can be automatically offset to sales or receivable accounts. Likewise, an entry to the salary expense account can automatically cause BOOKS! to prompt for FICA, federal, and state withholding taxes. The use of account names, instead of numbers, enables users to scan for specific accounts

easily. New ledger accounts can also be added to the chart of accounts at any time, even while making journal entries. Systems Plus plans to introduce other modules for use with BOOKS! The Electric Ledger, including fixed-asset management, payroll, inventory, order entry, and sales analysis.

Compatibility Matrix: 202.0025.002
Features Matrix: 202.0030.002

TARANTO & ASSOCIATES

121 Paul Dr
San Rafael CA 94903

(415) 472-2670

► General Ledger/Cash Journal

An accounting program

Price \$200 purchase

Environment Computers: microcomputers running under CP/M, MS-DOS, PC DOS. Main storage: 64K bytes. Source language: BASIC.

Capabilities Allows user-defined account numbers. Calculates and produces budgets. Compares year-to-year cash receipts in dollars/percentages. Produces departmental or multicompartment listings. Validation by accounts master file. Stands alone or interfaces with other systems.

Description General Ledger/Cash Journal allows the user to enter transactions through direct posting, cash journal, or such user sources as accounts payable, accounts receivable, payroll, and inventory control. Account numbers are user specified and can range from .1 to .99999.8. The account master file validates all transactions before acceptance.

Compatibility Matrix: 202.0025.002
Features Matrix: 202.0030.002

TCS SOFTWARE

3209 Fondren Rd
Houston TX 77063

(713) 977-7505

or percentages. Financial statements generated by the system can be constructed using 21 types of raw or comparison data.

Compatibility Matrix: 202.0025.002
Features Matrix: 202.0030.002

► TCS LEDGER

A general ledger system

Price Determined by dealer

Environment Computers: microcomputers running under CP/M or MS-DOS. Main storage: 56K bytes (8 bit); 85K bytes (16 bit). Source language: Microsoft BASIC-80.

Capabilities Master file maintenance. Master file list. Enter daily transactions. Delete transactions. Transaction file list. Query account status. Trial balance. Balance sheet. Income statement. Department income statement. Accounting transaction transfer. End-of-period processing.

Description TCS LEDGER records all financial transactions and their balances to provide timely balance sheets and income statements, as well as to provide comparative data on the financial position of any type or size business. The two major components are a general ledger master file, which allows a user to create and maintain a chart of accounts, and a transaction file, which allows a user to record journal entries and post them to the chart of accounts.

Compatibility Matrix: 202.0025.002
Features Matrix: 202.0030.002

TIMBERLINE SYSTEMS

7180 SW Fir Loop
Portland OR 97223

(503) 644-8155

► Medallion General Ledger

A general ledger accounting package

Price \$690 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT, Texas Instruments Professional, and Digital Equipment Rainbow 100 running under MS-DOS; IBM DisplayWriter and Sage II and IV microcomputers running under UCSD p-System. Main storage: 128K bytes. Source language: UCSD-Pascal.

Capabilities Flexible chart of accounts. Departmental and consolidated financial statements. Monthly, bi-monthly, quarterly, semiannual, and annual accounting periods. Thirteen-month fiscal year. Prior-period adjustments. Automatic posting of recurring entries. Automatic posting from other Timberline accounting programs, including payroll, accounts payable, accounts receivable, and inventory.

Description Medallion General Ledger monitors fixed assets and allows recurring costs to be distributed automatically to the proper accounts. The system compares current accounts with budget estimates and previous year totals, reporting variances in dollar amounts

PAYROLL/PERSONNEL Compatibility Matrix

203.0025.001

Vendor/Package	Compatible Operating Systems																Others
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	Unix	Xenix	
American Business Systems BACS Payroll System			•		•		•			•					•		RM/COS
ASK Micro Accounting Plus Payroll			•					•									
Bristol Information Systems PAYROLL										•							
Burroughs Easy Payroll																	BTOS
Champion Software The Champion Payroll			•		•		•			•							
Compact Software International Payroll			•							•							
Computech Group SOLOMON III Payroll										•							
Computer Products International Pay-Ware			•														
Comshare Applicant Tracking							•						•				
Construction Data Control Payroll Variable Rate Payroll			• •		• •												
Continental Software CPA Payroll	•																
CYMA CYMA Payroll		•	•		•			•		•							CDOS or TurboDOS
Data General CS Payroll																	RDOS
Designers & Builders of Information Systems (DBIS) Payroll			•														TurboDOS
Feith Systems and Software Payroll Personnel										•		•			•		
Groundstar Software Payroll											•						AMOS
Hayden Software Payroll							•			•							
Heritage Holdings JEWEL Payroll							•			•							

Vendor/Package	Compatible Operating Systems																Others
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	Unix	Xenix	
Higley & Co Payroll			•														
Hilderbay Hilderbay Payroll	•																
INFO Designs Payroll																Commodore DOS	
Information Marketing Business PEOPLE-PLANNER	•						•										
Information Unlimited Software (IUS) EasyBusiness Payroll							•										
International Micro Systems (IMS) Payroll			•		•			•									
Micro Data Business Forms & Systems Contractor Payroll Payroll			• •														
Midwest Computer Center Payroll			•														
Miles Computing Miles Payroll System																AtariDOS	
Occupational Computing Co OCC-Payroll									•			•					
Open Systems Payroll			•				•	•		•	•				•	•	
Peachtree Software Business Accounting Payroll PeachTax Service			• •		• •		• •			• •							
RealWorld Software RealWorld Payroll			•		•		•	•	•	•	•				•	TurboDOS, MmmOST, RT-11, RM/COS	
Sky Software PAYPACK	•																
Software Solutions Payroll														•			
Southwest Systems Full Service Payroll Write-up Payroll													• •				

Vendor/Package	Compatible Operating Systems														Others	
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System		Unix
Star Software Systems Star System 1 Payroll			•		•		•	•		•						
State of the Art Payroll	•						•									
Structured Systems Group (SSG) Payroll					•		•		•							
Tandy Payroll Payroll													• •			
Taranto & Associates Payroll/Job Costing							•		•							
TCS Software TCS Payroll			•				•		•							
Timberline Systems Medallion Payroll									•				•			

PAYROLL/PERSONNEL

Features Matrix

203.0030.001

Vendor/Package	System Capabilities													
	Applicant Tracking	Check Printing	Direct Deposit Payroll	EEO Reporting	Employees—Hourly Rate	Employees—Salaried	Labor Distribution	Labor Scheduling	Posting to Gen Ledger	Tax—Federal	Tax—State/Local	Tax Table Update	Vacation/Sick Days	Voluntary Deductions
American Business Systems BACS Payroll System		•	•		•	•			•	•	•			•
ASK Micro Accounting Plus Payroll		•		•	•	•	•		•	•	•		•	•
Bristol Information Systems PAYROLL		•			•	•			•	•	•			•
Burroughs Easy Payroll		•			•	•	•		•	•				•
Champion Software The Champion Payroll		•			•	•			•	•	•			•
Compact Software International Payroll		•	•		•	•			•	•		•		•
Computech Group SOLOMON III Payroll		•			•	•	•		•	•	•	•		•
Computer Products International Pay-Ware		•			•	•				•	•			•
Comshare Applicant Tracking	•			•				•						
Construction Data Control Payroll Variable Rate Payroll		•			•	•	•		•	•	•			•
Continental Software CPA Payroll		•			•	•	•		•	•	•	•		•
CYMA CYMA Payroll		•			•	•	•		•	•	•	•	•	•
Data General CS Payroll		•			•	•			•	•	•			•
Designers & Builders of Information Systems (DBIS) Payroll		•			•		•		•				•	•
Feith Systems and Software Payroll Personnel		•							•	•	•			•
Groundstar Software Payroll		•			•	•			•	•	•		•	•
Hayden Software Payroll		•			•	•			•	•	•	•		•
Heritage Holdings JEWEL Payroll		•	•		•	•	•		•	•	•			•



Vendor/Package	System Capabilities														
	Applicant Tracking	Check Printing	Direct Deposit Payroll	EEO Reporting	Employees—Hourly Rate	Employees—Salaried	Labor Distribution	Labor Scheduling	Posting to Gen Ledger	Tax—Federal	Tax—State/Local	Tax Table Update	Vacation/Sick Days	Voluntary Deductions	W2 Reporting
Higley & Co Payroll		•			•	•	•		•	•	•				•
Hilderbay Hilderbay Payroll					•	•				•					
INFO Designs Payroll		•			•	•			•	•	•			•	•
Information Marketing Business PEOPLE-PLANNER								•							
Information Unlimited Software (IUS) EasyBusiness Payroll		•			•	•			•	•	•	•	•	•	•
International Micro Systems (IMS) Payroll		•			•	•	•		•	•	•		•	•	•
Micro Data Business Forms & Systems Contractor Payroll Payroll		• •			• •	• •	• •		•	• •	• •		• •	• •	• •
Midwest Computer Center Payroll		•			•	•			•	•	•	•		•	•
Miles Computing Miles Payroll System		•			•	•				•	•	•	•		•
Occupational Computing Co OCC-Payroll		•			•	•	•		•	•	•				•
Open Systems Payroll		•			•	•	•			•	•			•	
Peachtree Software Business Accounting Payroll PeachTax Service		•			•	•	•		•	•	• •	• •	•	•	•
RealWorld Software RealWorld Payroll		•			•	•	•		•	•	•	•		•	•
Sky Software PAYPACK		•			•	•	•		•	•	•		•	•	•
Software Solutions Payroll		•			•	•				•	•			•	•
Southwest Systems Full Service Payroll Write-up Payroll		•			• •	• •	•			• •	• •	•		•	•

Vendor/Package	System Capabilities														
	Applicant Tracking	Check Printing	Direct Deposit Payroll	EEO Reporting	Employees—Hourly Rate	Employees—Salaried	Labor Distribution	Labor Scheduling	Posting to Gen Ledger	Tax—Federal	Tax—State/Local	Tax Table Update	Vacation/Sick Days	Voluntary Deductions	W2 Reporting
Star Software Systems Star System 1 Payroll		•			•	•			•	•	•				•
State of the Art Payroll		•			•	•	•		•	•	•				•
Structured Systems Group (SSG) Payroll		•					•		•	•	•		•	•	•
Tandy Payroll Payroll		• •		•	• •	• •	•		• •	• •	• •	•		• •	• •
Taranto & Associates Payroll/Job Costing		•			•	•	•			•	•		•		•
TCS Software TCS Payroll		•			•	•			•	•	•	•			•
Timberline Systems Medallion Payroll		•			•	•	•		•	•	•	•		•	•

PAYROLL/PERSONNEL

Product Summaries

AMERICAN BUSINESS SYSTEMS

3 Littleton Rd
Westford MA 01886

(617) 692-2600

► BACS Payroll System

A payroll accounting package

Price Vendor declined to provide

Environment Computers: microcomputers running under CP/M, CP/M-86, MS-DOS, PC DOS, Unix, or RM/COS. Main storage: 18K bytes. Source language: RM/COBOL.

Capabilities Calculates and accumulates earnings, taxes, and deductions. Supports up to 99 user-defined earnings categories, including hourly, salaried, and piece work earnings. Supports up to 99 user-defined deductions in addition to statutory tax deductions. Prints checks. Handles direct deposit. Prints W2 forms. Supports multiple unions.

Description The BACS Payroll System contains an employee data base, which drives the payroll processing and personnel management components. The program supports multiuser systems and features an optional automatic update of the general ledger.

Compatibility Matrix: 203.0025.001
Features Matrix: 203.0030.001

Compatibility Matrix: 203.0025.001
Features Matrix: 203.0030.001

BRISTOL INFORMATION SYSTEMS

84 N Main St
Fall River MA 02720

(617) 679-1051

► PAYROLL

A payroll accounting package

Price \$800 purchase

Environment Computers: IBM Personal Computer and other microcomputers running under MS-DOS. Main storage: 256K bytes. Source language: Databus and BUSINESS.

Capabilities Automatic calculation of earnings, taxes, and deductions. Gross pay, including hourly, salaried, commission, overtime, multirate, and shift differential payments. Up to 12 deductions with 16 deduction formulas. Prints W2 forms. Supports state, city, county, and school district taxes. Optional automatic interface to general ledger.

Description PAYROLL is part of a modular accounting system designed to meet the accounting needs of small businesses. Built-in report generators and help facilities make the system flexible and easy to use. A Canadian version of the program is available.

Compatibility Matrix: 203.0025.001
Features Matrix: 203.0030.001

ASK MICRO

100 Blue Ravine Rd
Folsom CA 95630

(916) 985-6555

► Accounting Plus Payroll

A payroll accounting module

Price \$595 purchase

Environment Computers: any microcomputer running under CP/M or MP/M. Main storage: 48K bytes. Source language: not specified.

Capabilities Calculates and accumulates earnings, taxes, and deductions. Accrues sick leave and vacation time. Allows up to 10 user-defined deductions. Prints checks and check stubs. Prints W2 forms. Collects labor costs and account numbers for job costing reports. Password protection.

Description Accounting Plus Payroll stores all employee and payroll record information required for government reports. It is fully integrated to the Accounting Plus General Ledger and automatically posts all payroll activity to the appropriate accounts.

BURROUGHS

Burroughs PI
Detroit MI 48232

(313) 972-7000

► Easy Payroll

A payroll system

Price \$595 purchase

Environment Computers: Burroughs B 20 running under BTOS. Main storage: not specified. Source language: not specified.

Capabilities Updates journals and employee records. Prints checks. Report writer. Updates general ledger. Produces 941 and W-2 forms. Clearly indicates gross pay and its computation, net pay, and employee contributions for pay period.

Description The Burroughs Easy (Executive Accounting System) Payroll package is designed to track each employee's time, gross pay, taxes, and deductions, and produce net pay checks. In addition, the system can provide a Cost Center Analysis that details labor costs and overtime by department and isolates departments with excessive overtime expenses. Output produced by the system includes a check register, payroll journal, tax totals report, general ledger report, employee master status report, trial balance report, W-2 and 941 information reports, and employee mailing labels.

Compatibility Matrix: 203.0025.001
Features Matrix: 203.0030.001

CHAMPION SOFTWARE

66 S Van Gordon
Suite 155
Lakewood CO 80228

(303) 987-2588

► The Champion Payroll

A payroll accounting program

Price Purchase: \$495 (8 bit), \$595 (16 bit)

Environment Computers: any microcomputer running under CP/M, CP/M-86, MS-DOS, or PC DOS. Main storage: 64K bytes. Source language: dBASE II.

Capabilities Calculates and accumulates earnings, taxes, and deductions. Handles weekly, biweekly, semi-monthly, and monthly payroll checks for hourly or salaried employees. Allows prepayment editing. Accommodates manual checks. Calculates state withholding and unemployment taxes. Prints W2 forms. Optional automatic interface to general ledger.

Description The Champion Payroll program can be used alone or with other Champion Business Accounting Software. All five business accounting modules reside online simultaneously, allowing records to be updated automatically and immediately with a minimum of effort.

A multicompny version of The Champion Payroll designed for accountants handles up to 999 companies.

Compatibility Matrix: 203.0025.001
Features Matrix: 203.0030.001

COMPACT SOFTWARE INTERNATIONAL LTD

Cape House, Cape Place, Dorking
Surrey, England

(0306) 887373

► PAYROLL

Provides payroll administration and control as well as statistics for government returns

Price Vendor declined to provide

Environment Computers: microcomputers running under CP/M or MS-DOS. Main memory: 64K bytes. Source language: Microsoft BASIC.

Capabilities Incorporates a program for tax and National Insurance (NI) tables, allowing changes to be carried out by the user. Prints new headings through the use of free-format payslip design. Details up to 20 deductions. Shows coin analysis on the payslip. Allows for check, cash, or bank giro payment. Automatically generates monthly payroll. Provides basic salary or basic rate plus overtime rates.

Description Payroll operates using batch input. Because all entries are double-checked during input, keying errors are detected immediately and can be corrected before files are updated. Changes or deletions can be made before taxes and NI are calculated and before pay-slips have been printed.

Compatibility Matrix: 203.0025.001
Features Matrix: 203.0030.001



COMPUTECH GROUP

Main Line Industrial Park
Lee Blvd
Frazer PA 19355

(215) 644-3344
(215) SOLOMON

► SOLOMON III Payroll

Provides functions for determining employee earnings, deductions, and credits

Price \$595 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT, Digital Equipment Rainbow, and other microcomputers running under MS-DOS. Main storage: 256K bytes. Source language: C.

Capabilities Prints checks, 941 reports, and W2 statements. Allows for multiple payroll checking accounts. Provides option to print a W2 form for each location at which employee worked. Enables payroll processing in new accounting period before current period is closed. Automatically updates general ledger and job costing modules, if desired, for instant availability of complete financial reports. Permits check voiding.

Description SOLOMON III Payroll is configured to provide information for all 50 states. The number of employee records kept is limited only by available disk space. Earnings, exemptions, and credits are user definable. Tax tables can be modified. All reports are automatically sorted, eliminating the need to sort and merge programs.

Compatibility Matrix: 203.0025.001
Features Matrix: 203.0030.001

ing for payroll attendance transactions and for manual payroll transactions. Gross pay, taxes, and voluntary deductions are automatically calculated. Pay-Ware prints checks and check stubs, an employee master list, time-card labels, an employee deduction register, prelist worksheets, prelist audit trails, an earnings register, a check register, a quarter-to-date and year-to-date earnings register, a workman's compensation report, a quarterly tax report, and W-2 forms.

Compatibility Matrix: 203.0025.001
Features Matrix: 203.0030.001

COMPUTER PRODUCTS INTERNATIONAL

3225 Danny Pk
New Orleans LA 70002

(504) 455-5330

► Pay-Ware

An accounting system for various microcomputers

Price \$295 purchase

Environment Computers: any microcomputer running under CP/M; Apple II and Commodore microcomputers. Main storage: 64K bytes. Source language: CBASIC, Microsoft BASIC, Applesoft BASIC.

Capabilities Handles hourly and/or salary payroll. Provides complete employee file maintenance. Supports up to 200 employee files on a data disk. Allows interactive entry and editing for payroll attendance transactions and for manual payroll transactions. Calculates pay, taxes, and voluntary deductions. Prints payroll checks, check stubs, quarterly tax reports, W-2 forms, and 10 other reports.

Description Pay-Ware is an accounting system designed to process payroll, deductions, quarterlies, and end-of-year closings. It calculates hourly and/or salary payroll and has a complete employee file maintenance capability. The system allows interactive entry and edit-

COMSHARE

3001 S State St
PO Box 1588
Ann Arbor MI 48106

(313) 994-4800

► Applicant Tracking

Tracks job applicant information

Price \$1,995 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT, Tandy TRS-80 Model II. Main memory: 128K bytes. Source language: Pascal.

Capabilities Supports applicant processing, including daily recordkeeping, Equal Employment Opportunity (EEO) reporting, management analysis, candidate searches, ad hoc reporting. Generates job offer or rejection letters when used with a WP program. Provides data entry, reporting and analysis, WP, and communications with other computers.

Description Applicant Tracking is a personnel management tool that expedites the hiring process by maintaining a data base with more than 100 fields of information on each applicant. Fifteen code tables are built into the data base structure to expedite applicant records processing. The program offers four methods of generating reports; a standard reporting package, detailed report writer, cross tabulator, and candidate search facility. The standard reporting package produces applicant profiles and three summary reports that are useful for EEO reporting, applicant tracking, and applicant comparisons.

Compatibility Matrix: 203.0025.001
Features Matrix: 203.0030.001

CONSTRUCTION DATA CONTROL

614 Northbelt Pkwy
Suite A
Norcross GA 30071

(404) 448-4722

► Payroll

An accounting system for various microcomputers

Price Purchase: \$995 (diskette); \$1,500 (disk)

Environment Computers: any computer based on CP/M, CP/M-86. Main storage: 64K bytes. Source language: CBASIC 2 or CBASIC 86.

Capabilities Can operate independently. Provides maintenance of employee information, pay amounts, hour entry and verification, computation of employee pay, deductions, and the printing of management reports. Prints payroll checks.

Description Payroll is an accounting system that can operate independently or can be linked to the general ledger system to perform all the necessary tasks for payroll. It handles both salaried and hourly employees and accounts for individual tax rates, health insurance rates, and miscellaneous deductions, such as stock plans and savings bonds. Payroll checks and management

reports—including monthly, quarterly and yearly totals for each employee—can be printed. In an interactive mode, the proper accounts in the general ledger and job costing systems are automatically posted. The system allows the user to change the length of the pay period and adjust the payroll to permit varying pay frequencies for different groups of employees.

Compatibility Matrix: 203.0025.001

Features Matrix: 203.0030.001

CONSTRUCTION DATA CONTROL

6140 Northbelt Pkwy
Suite A
Norcross GA 30071

(404) 448-4722

► Variable Rate Payroll

An accounting system for various microcomputers

Price Purchase: \$1,675 (diskette); \$2,500 (disk)

Environment Computers: any computer based on CP/M or CP/M-86. Main storage: 64K bytes. Source language: CBASIC 2 or CBASIC 86.

Capabilities Calculates and reports wages for employees with varying pay rates. Supports up to 99 different work descriptions and rates. Provides reports for union wage summaries, federal certified payroll, and employee efficiency analysis.

Description Variable Rate Payroll is an accounting system designed for contractors and employers who pay their employees different wage rates during one payroll period. The system supports up to 99 different user-specified work descriptions and rates to be printed or changed at any time. This program also provides reports for union wage summaries, federal certified payroll, and employee efficiency analysis. Variable Rate Payroll interacts with the job cost and general ledger programs.

Compatibility Matrix: 203.0025.001

Features Matrix: 203.0030.001



CONTINENTAL SOFTWARE

11223 S Hindry Ave
Los Angeles CA 90045

(213) 410-3977

► CPA Payroll

Performs functions necessary for distribution of wages and deductions

Price \$250 purchase

Environment Computers: Apple II+ and IIe. Main memory: 48K bytes. Source language: not specified.

Capabilities Maintains employee records. Prints payroll checks, 941 information, W2 forms, and payroll journal. Prints California Form DE-3 information. Easily reconfigured to handle any state's taxes. Posts to general ledger.

Description CPA Payroll maintains personnel records for up to 100 employees as well as quarter-to-date and year-to-date earnings. Employees can be grouped by department and designated as hourly or salaried. Federal and state exemptions are stored, as are miscellaneous deductions. The package stands alone or is used as part of an integrated system.

Compatibility Matrix: 203.0025.001

Features Matrix: 203.0030.001

DATA GENERAL

44000 Computer Dr
Westboro MA 01580

(617) 366-8911

► CS Payroll

Provides analysis and control of labor costs and information for government reports

Price Vendor declined to provide

Environment Computers: Data General DESKTOP GENERATION Models 10, 20, and 30 running under RDOS. Main memory: not specified. Source language: not specified.

Capabilities Automatically calculates taxes, deductions, and earnings. Prints payroll checks and W2 forms. Creates general ledger distributions automatically. Optional direct transfer to general ledger. Maintains taxable earnings and tax withheld for each tax category.

Description CS Payroll is a payroll-by-exception system. The user sets the standard payroll for each employee, and only exceptions to this standard information are entered for each pay period.

Compatibility Matrix: 203.0025.001

Features Matrix: 203.0030.001

CYMA

2160 E Brown Rd
Mesa AZ 85203

(602) 835-8880

► CYMA Payroll

A payroll system for numerous microcomputers

Price \$795 purchase

Environment Computers: Most microcomputers running under CP/M, MP/M-II, CP/M-86, Concurrent DOS, PC DOS, MS-DOS, CDOS, or TurboDOS. Main storage: 48K bytes. Source language: CBASIC.

Capabilities User-defined tax tables. Multistate tax calculations. Labor distribution. Date sensitive. Eight deductions allowed per employee. Mixed- or multiple-terminal support.

Description CYMA Payroll is designed to handle processing for all payroll types. Employee time can be broken down by regular, overtime, and double-time hours, and by job and rate paid per job. Results can be made to reflect current, monthly, quarter, and year-to-date totals. The system can also detail each employee's deductions, identify any broken check sequence or voided checks, and provide a complete personnel record. Output includes payroll worksheets, 941s, W-2s, payroll checks, verification reports, alpha list of employees by multiple parameters, check register, and payroll analysis/report.

Compatibility Matrix: 203.0025.001

Features Matrix: 203.0030.001

**DESIGNERS & BUILDERS OF
INFORMATION SYSTEMS (DBIS)**

One Mayfair Rd
Eastchester NY 10707

(914) 779-5292
(212) 632-2816

► Payroll

An accounting system

Price \$800 purchase

Environment Computers: microcomputers running under CP/M or Turbo DOS. Main storage: configuration dependent. Source language: BASIC.

Capabilities Provides audit-entry report. Processes nonstandard payroll checks. Tracks vacation, sick, or personal days. Prints payroll register and paychecks. User-operated manual deduction or bypass deduction capability. Processes voluntary and government deductions. Updates departmental costs.

Description Payroll manages payroll expenses over two different departments for regular and overtime hours. Differential pay for premium shifts may be specified by the user. An audit-entry report provides a pre-processing audit trail to allow for corrections prior to producing checks. It includes social security number; regular and overtime hours; overtime rates; and vacation, sick, and personal days. The system produces reports for each type of data stored.

Compatibility Matrix: 203.0025.001
Features Matrix: 203.0030.001

GROUNDSTAR SOFTWARE

2160 41st Ave
Suite 206
Capitola CA 95010

(408) 462-5250

► Payroll

An accounting system for OASIS-based and Alpha Micro microcomputers

Price \$1,500 purchase

Environment Computers: AlphaMicro systems running under AMOS and any OASIS-based microcomputer. Main storage: configuration dependent. Source language: OASIS BASIC and AMOS BASIC.

Capabilities Generates payroll transactions, deductions, and tables. Maintains employer records for current year and each prior month in current year. Dynamically updates files. Allows 10 user-specified deductions. Permits up to five user-defined pay types.

Description Payroll is a multiuser multitasking accounting system that performs user-defined payroll transactions. It allows the user 10 different deduction formats, as well as five pay types, in addition to regular overtime, holiday, sick, and vacation pay. Employer payroll records maintain monthly totals for the current month and each prior month in the current year. The system also provides quarterly and year-to-date totals for each employee.

Compatibility Matrix: 203.0025.001
Features Matrix: 203.0030.001

FEITH SYSTEMS AND SOFTWARE

One Bala Plaza
Bala Cynwyd PA 19004

(215) 667-5575

► Payroll Personnel

An accounting system

Price \$1,000 purchase

Environment Computers: microcomputers running under OASIS-16, MS-DOS, or Unix. Main storage: 64K bytes. Source language: BASIC.

Capabilities Maintains payroll and personnel records. Prints payroll and vouchers. Calculates all government deductions. Prints register for payroll. Produces W-2 forms and 941 report. Allows up to five miscellaneous deductions.

Description Payroll Personnel is an accounting program designed to maintain payroll and personnel records. It supports more than 300 employees per disk, providing employers with detailed personnel information. Quarterly and yearly summaries are printed, as well as a payroll register for each pay period.

Compatibility Matrix: 203.0025.001
Features Matrix: 203.0030.001



HAYDEN SOFTWARE600 Suffolk St
Lowell MA 01853

(617) 937-0200

► Payroll

A payroll accounting package

Price \$249 purchase**Environment** Computers: IBM Personal Computer and Personal Computer XT; Digital Equipment Rainbow 100; Texas Instruments Professional Computer; other microcomputers under MS-DOS. Main storage: 128K bytes. Source language: Microsoft BASIC.**Capabilities** Supports payroll for up to 400 employees. Automatic calculation of earnings, taxes, and deductions. Prints checks. Prints W2 forms. Handles multiple state and local tax tables. Up to six automatic deductions. Manual checks and operator override. Optional automatic interface to general ledger.**Description** Payroll allows interactive payroll processing. As pay period data for each employee is input, Payroll calculates earnings and deductions, prints the payroll check, and updates the employee's record. Federal, FICA, state, and local tax tables can be easily updated to reflect changes in tax laws.**Compatibility Matrix:** 203.0025.001
Features Matrix: 203.0030.001

HIGLEY & COPO Box 451
Mentor OH 44060

(216) 946-5359

► Payroll

A payroll accounting program

Price \$2,500 purchase**Environment** Computers: Hewlett-Packard HP 250. Main storage: 64K bytes. Source language: BASIC.**Capabilities** Calculates and accumulates earnings, taxes, and deductions. Prints checks. Prints W2 forms. Handles special earnings, multiple rates, bonuses, and commissions.**Description** Payroll handles all types of hourly and salaried payrolls. The system provides extensive audit trails and flexible reporting capabilities. Payroll interfaces to job costing, labor distribution, and general ledger accounting programs.**Compatibility Matrix:** 203.0025.002
Features Matrix: 203.0030.002

HERITAGE HOLDINGS611 Anton Blvd
Suite 720
Costa Mesa CA 92626

(714) 662-6999

► JEWEL Payroll

Produces checks, tracks payroll, and generates reports

Price \$525 purchase**Environment** Computers: IBM Personal Computer, Personal Computer XT, and compatible computers; Digital Equipment Rainbow 100; and Televideo computers running under MS-DOS. Main storage: 256K bytes. Source language: BASIC, FORTRAN, SYMBOL.**Capabilities** Tracks reductions and deductions. Automatically calculates all state and federal taxes. Provides seven user-defined tax withholding categories. Automatically posts to job cost and general ledger modules. Handles 401(k) deferred-income retirement plans. Generates employee lists by name or department. Generates 941 and California DE3 forms. Keeps month-, quarter-, and year-to-date totals for all earnings, withholdings, deductions, reductions, and allowances. Posts and/or voids handwritten checks. Generates automatic payroll deposit checks. Prints a complete check register. Maintains an optional check history for each employee.**Description** JEWEL Payroll is a set of programs for recording, sorting, summarizing, and reporting payroll for one or several companies. The module either stands alone or is integrated with other JEWEL accounting packages. If the payroll module is integrated with the general ledger, report data is automatically transferred to the general ledger for inclusion in financial statements and management reports. JEWEL Payroll uses terms from ordinary business language.**Compatibility Matrix:** 203.0025.001
Features Matrix: 203.0030.001

HILDERBAY LTD

8-10 Parkway, Regents Park
London NW1 7AA
England

01-485 1059

► Hilderbay Payroll

Provides employee income information

Price £100 purchase

Environment Computers: Apple II+, IIe, and comparable computers. Main memory: 64K bytes. Source language: not specified.

Capabilities Computes net pay taxes and insurance contributions based on gross pay without the need to enter tax or National Insurance data. Computes gross pay and deductions based on net pay.

Description Hilderbay Payroll is a program for English payroll taxes that provides details for up to 50 employees on one file. A version for the Sinclair Spectrum home computer is also available.

Compatibility Matrix: 203.0025.002

Features Matrix: 203.0030.002

INFO DESIGNS

6905 Telegraph Rd
Birmingham MI 48010

(313) 540-4010

► Payroll

An accounting package for all Commodore microcomputers

Price Vendor declined to provide

Environment Computers: Commodore 64, CBM 8032, and SuperPET microcomputers. Main storage: 32K bytes. Source language: not specified.

Capabilities Prints checks with full deduction detail. Provides employer master record with current data. Produces individual and summary payroll journal reports. Provides automatic calculations for government deductions. Prints W-2 and 941 reports. Processes various payables. Password protected. Interfaces with general ledger module.

Description Payroll is a menu-driven payroll management system that produces payroll checks for salaried, hourly, and commission-based employees. For each employer, it maintains a master file that includes tax status, number of deductions, pay rate, current pay, withholding tax, FICA, up to nine miscellaneous deductions, and year-to-date pay information. It can be configured as a standalone program or interfaced with general ledger. The system provides online inquiry and produces individual and summary payroll journals. Programs are compiled for fast operation and are password protected.

Compatibility Matrix: 203.0025.002

Features Matrix: 203.0030.002

INFORMATION MARKETING BUSINESS LTD

877 Beacon St
Boston MA 02215

(617) 424-1115

► PEOPLE-PLANNER

Provides employee scheduling for labor-intensive industries

Price Vendor declined to provide

Environment Computers: IBM Personal Computer and Personal Computer XT, Apple III with the Profile hard disk drive. Main memory: 128K bytes. Source language: not specified.

Capabilities Determines work requirements. Allows consideration of seniority, pay rate, and performance in scheduling. Schedules substitutions and prepares separate break schedules for all shifts.

Description PEOPLE-PLANNER is a scheduling tool that balances personnel availability, labor costs, and work requirements in producing work schedules. It enables employers to effectively handle flexible work assignments by minimizing overtime and maximizing employee availability. The menu-driven package is best suited for industries with 50 or more employees.

Compatibility Matrix: 203.0025.002

Features Matrix: 203.0030.002



INFORMATION UNLIMITED SOFTWARE (IUS)

2401 Marinship Way
Sausalito CA 94965

(415) 331-6700

► EasyBusiness Payroll

A payroll accounting package

Price \$745 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT. Main storage: 64K bytes. Source language: C.

Capabilities Automated calculation of earnings, taxes, and deductions. Reports vacation time and sick leave. Supports nonstandard earnings, such as union benefits, shift differentials, and tips. Prints checks, check stubs, and W2 forms. Tax tables easily updated to reflect changes in tax laws. Optional automatic interface to general ledger.

Description EasyBusiness Payroll automates payroll functions for companies with up to 300 employees. Employee pay history and deduction accumulations are automatically maintained. Payroll checks, check stubs, and W2 forms can be customized easily by using either the text editor supplied with EasyBusiness Payroll or the IUS EasyWriter II word processor.

Compatibility Matrix: 203.0025.002

Features Matrix: 203.0030.002

MICRO DATA BUSINESS FORMS & SYSTEMS

5707 Lacey Blvd

#104

Olympia WA 98503

(206) 459-3300

► Contractor Payroll

An accounting and payroll system

Price \$500 purchase

Environment Computers: any CP/M-based micro-computer. Main storage: 48K bytes. Source language: CBASIC-2.

Capabilities Provides menu-selection entry. Allows user-defined customer numbers and service codes. Detects errors and prevents invalid entry. Handles payrolls for hourly and/or salaried employees. Calculates miscellaneous deductions. Prints checks, 941s, W-2s, and a check register. Provides labor distribution to job cost.

Description The Contractor Payroll accounting system handles weekly, biweekly, and monthly payrolls for hourly and/or salaried employees. It uses menu-selection entry and user-defined customer numbers and service codes. The system provides extensive error detection and prevention of invalid entry and calculates sick leave, vacations, and deductions, such as federal, FICA, state, and local taxes, disability, and retirement. It prints checks, 941s, W-2s, and a check register. The system also provides labor distribution to job cost.

Compatibility Matrix: 203.0025.002

Features Matrix: 203.0030.002

INTERNATIONAL MICRO SYSTEMS (IMS)

6445 Metcalf

Shawnee Mission KS 66202

(913) 677-1137

► Payroll

A payroll system

Price \$650 purchase

Environment Computers: any microcomputer running under CP/M, MP/M-II, or CP/M-86. Main storage: 64K bytes. Source language: CBASIC.

Capabilities Payroll: weekly, biweekly, semimonthly, and monthly. Prepares W2 and 941 forms. Eight user-defined deductions, plus federal and state taxes, FICA, and earned income credit. Handles up to 400 employees. Processes simultaneous two-state payroll. Monthly, quarterly, and year-to-date summaries. Sick and vacation accrual and reporting. Labor distribution for up to 30 accounts.

Description The IMS Payroll System provides an automated payroll program that prints payroll checks and registers and prepares 941A and W-2 forms, while accruing and reporting vacation and sick time. Output includes an employee status sheet; pay checks and payroll register; deductions; monthly, quarterly, and annual payroll statistics; and a general ledger posting register.

Compatibility Matrix: 203.0025.002

Features Matrix: 203.0030.002

MICRO DATA BUSINESS FORMS & SYSTEMS

5707 Lacey Blvd
#104
Olympia WA 98503

(206) 459-3300

► Payroll

An accounting system

Price \$500 purchase

Environment Computers: any CP/M-based micro-computer. Main storage: 48K bytes. Source language: CBASIC-2.

Capabilities Calculates payroll, sick leave and vacation, cost collection, and miscellaneous deductions. Provides menu-selection entry. Allows user-defined customer numbers and service codes. Detects errors and prevents invalid entry. Automatic input to general ledger system. Prints checks, 941s, W-2s, and check register.

Description The Payroll accounting system prepares weekly, biweekly, or monthly payrolls for hourly and/or salaried employees. The system also calculates sick leave, vacation, cost collection by department, year to date, and deductions such as Federal, FICA, state, and local taxes, disability, and retirement. Payroll uses menu-selection entry, with user-defined customer numbers and service codes, and provides extensive error detection and prevention of invalid entry. Payroll is integrated with the general ledger system and prints checks, 941s, W-2s, a check register, and time and cost reports.

Compatibility Matrix: 203.0025.002
Features Matrix: 203.0030.002

MIDWEST COMPUTER CENTER

5785 Merle Hay Road
Johnston IA 50131

(515) 376-3387

► Payroll

A payroll accounting system with automatic labor distribution

Price \$1,195 purchase

Environment Computers: any CP/M-based micro-computer. Main storage: 64K bytes. Source language: Microsoft FORTRAN.

Capabilities Supports up to 250 employees with up to eight deductions per employee. Four basic tax withholdings: FICA, federal, state, and one additional tax. Provides for changing tax tables through standard payroll functions, automatic calculation of withholding, deductions, and net pay; automatic distribution of payroll information to payroll journal; payroll check reconciliation; and automatic payment of salaried employees by pay period. Provides for multiple pay rates per employee per check and allows for multiple checks per employee per pay period. Distributes payroll expense to multiple labor-expense categories during time card entry.

Provides automatic calculation and accumulation of labor overhead expense and of union fringe benefits.

Description The Payroll accounting system offers complete flexibility for salaried union and nonunion personnel. For salaried employees, the user selects the payroll period; the system computes the taxes and deductions and writes the check. Payroll allows for up to 23 active unions at any one time and provides detailed or summary workers' compensation reports. The user can allocate wages to job or nonjob labor categories, to operation codes, or directly to general ledger accounts.

Compatibility Matrix: 203.0025.002
Features Matrix: 203.0030.002

MILES COMPUTING

7136 Haskell Ave
Suite 204
Van Nuys CA 91406

(213) 994-6279

► Miles Payroll System

A payroll accounting system

Price \$179 purchase

Environment Computers: Atari 800. Main storage: 32K bytes. Source language: not specified.

Capabilities Random-access employee files for rapid updating and inquiry. Handles regular, overtime, illness, holiday, and vacation pay. Supports commissions and bonuses. Automatically calculates and accumulates deductions. Prints checks automatically. Maintains unemployment insurance information. Supports tax-sheltered annuity deductions.

Description Miles Payroll System is a payroll accounting system designed for businesses with up to 50 employees. The system maintains cumulative data files on all employees and supports complete payroll management reporting, check writing, and W2 form tax reporting. Federal tax tables can be updated easily to reflect changes in tax laws.

Compatibility Matrix: 203.0025.002
Features Matrix: 203.0030.002



OCCUPATIONAL COMPUTING COMPANY

22311 Ventura Blvd
Suite 123
Woodland Hills CA 91364

(213) 999-1919

► OCC-Payroll

An accounting system

Price \$495 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT; microcomputers running under MS-DOS; Tandy TRS-80 Model II under TRS-DOS. Main storage: 64K bytes. Source language: Microsoft BASIC.

Capabilities Supports multiple pay frequencies. Calculates on salary or hourly basis. Computes automatic deductions, commissions, bonuses, and tips. Prints complete journal, checks, check register, quarterly 941A reports, and yearly W-2 reports.

Description OCC-Payroll is an accounting system that produces payroll checks and quarterly and yearly reports. Features include multiple pay frequencies, salary or hourly calculation, and automatic federal, state, FICA, and SDI deductions. The system controls commissions, bonuses, and tips. Printed output includes complete journal, checks, check register, quarterly 941A reports, and yearly W-2 reports. OCC-Payroll interfaces with OCC-Labor Distribution, OCC-Job Costing, OCC-Union Reporting, and OCC-General Ledger modules.

Compatibility Matrix: 203.0025.002

Features Matrix: 203.0030.002

OPEN SYSTEMS

430 Oak Grove
Minneapolis MN 55403

(612) 870-3515

► Payroll

An accounting program for numerous microcomputers

Price \$695 purchase

Environment Computers: microcomputers running under CP/M, MP/M-II, PC DOS, MS-DOS, OASIS, Unix, or Xenix. Main storage: 64K bytes. Source language: Business BASIC, COBOL.

Capabilities Enters and prints time tickets and miscellaneous transactions. Prepares and prints checks with check register. Prints all government reporting requirements. Prints employee lists and mailing labels. Performs automatic quarter and year-end file maintenance. Stands alone or interfaces with other programs. Provides password protection.

Description Payroll is an interactive paycheck and expense-control system that processes checks and allows labor-expense distribution and reporting by department, job, and phase. Multiuser payroll handles hourly and salaried employees and allows parameter selection

on reports. The system meets all government reporting requirements and offers more than five pays and 11 deductions. Checks may be processed manually, and password protection is provided for data security.

Compatibility Matrix: 203.0025.002

Features Matrix: 203.0030.002

PEACHTREE SOFTWARE

3445 Peachtree Rd NE
Atlanta GA 30326

(404) 239-3000

► Business Accounting Payroll

A payroll system

Price \$595 purchase

Environment Computers: any microcomputer running under CP/M, CP/M-86, MS-DOS, or PC DOS. Main storage: varies. Source language: Microsoft BASIC.

Capabilities Tax record maintenance. Uses tax algorithm. Full employee history, showing current, month-to-date, quarter-to-date, and year-to-date earnings and deductions. Supports weekly, biweekly, monthly, and semimonthly pay periods. Tracks sick and vacation days accrued and used. Handles commissions and draws against commission. Tracks tips. Allows six user-defined taxable or nontaxable deductions. Handles employee-specific tax deductions. Optional interface to general ledger or job costing system.

Description Business Accounting Payroll provides control over all aspects of payroll accounting. Reports include an employee file list, tax file list, calculate pay edit list, payroll checks and register, deductions register, payroll summary paymaster's worksheet/timecard entry, post-current period control report, 941A state wage report, 941 worksheet, FUTA report, general ledger transaction register, W-2 forms, deleted employees list, and employee file recovery control report.

Compatibility Matrix: 203.0025.002

Features Matrix: 203.0030.002

PEACHTREE SOFTWARE

3445 Peachtree Rd NE
Atlanta GA 30326

(404) 239-3000

► PeachTax Service

A subscription payroll tax update for users of the Peachtree Business Accounting Payroll program

Price \$200 purchase

Environment Computers: microcomputers running under CP/M, CP/M-86, MS-DOS, or PC DOS. Main storage: not specified. Source language: not specified.

Capabilities Informs all subscribers of changes to federal withholding, FICA, all state withholding, and more than 5,000 local taxes. Provides special worksheets and reports for California DE-3 and New Jersey WR-30 tax forms.

Description PeachTax Service is a payroll tax update service for users of Peachtree's Business Accounting Payroll package. The service keeps users informed of changes to federal, state, or local taxes. Included in the service is the PeachTax Bulletin (a collection of tax tips) and the PeachTax Update Disk, which allows users to bring their Business Accounting Payroll systems up to date with current tax codes.

Compatibility Matrix: 203.0025.002
Features Matrix: 203.0030.002

REALWORLD SOFTWARE

Dover Road
Willow Hill Bldg
Chichester NH 03263

(603) 798-5700

► RealWorld Payroll

A payroll system

Price \$650 purchase

Environment Computers: microcomputers running under CP/M, CP/M-86, MP/M-11, MS-DOS, PC DOS, TurboDOS, MmmOST, MP/M-86, OASIS, RT-11, RM/COS, or some versions of Unix. Main storage: 64K bytes. Source language: RM/COBOL, Level II COBOL.

Capabilities Employee file maintenance. Handles hourly and salary employees and processes daily, weekly, biweekly, semimonthly, and quarterly payroll periods. Processes attendance data interactively. Calculates payroll and allows entry and maintenance of tax calculation formulas.

Description RealWorld Payroll provides processing and reporting of personnel activity and payment data. Output from the system includes payroll checks and check register; payroll and deductions registers; payroll distributions to the general ledger report; history, union deductions, and hours reports; quarterly nonemployee compensation report; and year-end W-2 information report.

Compatibility Matrix: 203.0025.002
Features Matrix: 203.0030.002

SKY SOFTWARE

103 Lexington Ave
Passaic NJ 07055

(201) 779-3399

► PAYPACK

Tracks labor and maintains personnel files

Price \$395 purchase

Environment Computers: Apple IIe. Main memory: 64K bytes. Source language: not specified.

Capabilities Calculates pay by hour, piece, or salary. Handles multiple pay and overtime rates, along with cash advances and reimbursements. Allows three voluntary deductions. Prepares federal, state, and local deposits and reports. Provides personnel information and labor distribution data.

Description PAYPACK provides more than 50 bookkeeping and management reports. It also provides such information as sick and holiday pay, tax annuities and commissions, employment and wage history, and detailed and quarterly earnings ledgers. PAYPACK generates W2 statements, paychecks and stubs, time cards, and mailing labels for 165 employees. The package tracks all labor costs for up to five general ledger departments, with eight divisions in each department. It reports hours, wages, and pay by division and earnings within each department.

Compatibility Matrix: 203.0025.002
Features Matrix: 203.0030.002

SOFTWARE SOLUTIONS

PO Box 301
Muscataine IA 52761

(319) 264-1384

► Payroll

A payroll processing system

Price \$895 purchase

Environment Computers: microcomputers running under UCSD p-System, including the IBM Personal Computer and Personal Computer XT, Apple IIe and III, and Sage II and IV. Main memory: not specified. Source language: Pascal.

Capabilities Handles salary and hourly wage payments for up to 1,500 employees. Performs standard tax accounting functions.

Description The Payroll system permits deviations from standard withholding practices but requires no input for standard paychecks. It also provides the capability to calculate bonuses.

Compatibility Matrix: 203.0025.002
Features Matrix: 203.0030.002



SOUTHWEST SYSTEMS

44 Third Ave
Suite F
Chula Vista CA 92010

(619) 425-5500

► Full Service Payroll

An accounting system

Price \$150 purchase

Environment Computers: Tandy TRS-80 Models I, III, and 4. Main storage: 48K bytes. Source language: Microsoft BASIC.

Capabilities Provides a flexible employee-payment method. Supports up to 20 deduction categories for computing nonstandard deductions. Checks errors during payroll processing. Updates tax tables and other tax variables. Prints summaries of incomes and deductions, employer tax liabilities, 941s, state and federal tax forms, and W-2s.

Description Full Service Payroll is an accounting system that handles payroll for up to six individual departments with a total of up to 100 employees. Hourly or salary payments are featured, along with commissions, draw accounts, and combinations thereof. The system supports up to 20 categories for automatic calculation of nonstandard deductions, such as union dues and uniforms. Full Service Payroll has a versatile error-check feature and can process payrolls weekly, biweekly, semimonthly, or monthly. It also provides utility programs to update tax tables and other tax variables. The system prints summaries for all income and deductions, employer tax liabilities with the due amount and time of deposits, 941s, state and federal tax forms, non-standard deductions by category, and W-2s.

Compatibility Matrix: 203.0025.002
Features Matrix: 203.0030.002

SOUTHWEST SYSTEMS

44 Third Ave
Suite F
Chula Vista CA 92010

(714) 425-5500

► Write-up Payroll

An accounting system

Price \$150 purchase

Environment Computers: Tandy TRS-80 Models I, III, and 4. Main storage: 48K bytes. Source language: Microsoft BASIC.

Capabilities Validates FICA and SDI and variances shown on the individual employee payroll report. Summarizes each payroll. Prints worksheets and W-2s.

Description Write-up Payroll is an accounting system for public accountant firms and other operations that require an after-the-fact payroll write-up system. The system works on weekly, biweekly, semimonthly, or monthly information. FICA and SDI and variances shown on the individual employee payroll report are va-

lidated. Each payroll is summarized, showing the actual income, deductions, calculated taxes due, tax deposit amount, and net state and federal taxes due by deposit date. The system also prepares quarterly 940 and 941 worksheets, 941 continuation sheets, California DE-3 worksheets, and W-2s.

Compatibility Matrix: 203.0025.002
Features Matrix: 203.0030.002

STAR SOFTWARE SYSTEMS

20600 Gramercy Pl
Suite 103
Torrance CA 90501

(213) 538-2511

► Star System 1 Payroll

Processes company payroll records and checks

Price \$495 purchase

Environment Computers: microcomputers running under CP/M, MP/M, MS-DOS, PC DOS, or CP/M-86. Main memory: 64K bytes. Source language: CB80.

Capabilities Maintains employee records, time card information, and federal, state, and local tax information. Produces reports. Handles tax tables for 99 states and localities.

Description Star System 1 Payroll produces various management and government reports, including employee lists, payroll registers, W2 and 941 information, and federal and state tax deposit history. The package can be operated as a standalone payroll system, or it can be interfaced with the Star System 1 General Ledger.

Compatibility Matrix: 203.0025.003
Features Matrix: 203.0030.003

STATE OF THE ART

3181-A Airway Ave
Costa Mesa CA 92626-4618

(714) 850-0111

► Payroll

A payroll package

Price \$395-\$595 purchase

Environment Computers: Apple II, IIe, II+, III, IBM Personal Computer. Main storage: 64K bytes (Apple II, IIe, II+); 128K bytes (IBM Personal Computer, Apple III). Source language: UCSD-Pascal.

Capabilities Payroll processing. Automatic record-keeping and updating. Generates audit trails and reports. Accommodates variable pay periods and multiple pay rates for each employee. Reports by labor distribution code. Prints checks. Calculates federal and state tax. Generates W2 forms.

Description Payroll can be used as a standalone package or as part of State of the Art's integrated financial package. The system processes both hourly and salaried earnings and supports on-demand inquiries into employee performance evaluations.

Compatibility Matrix: 203.0025.003

Features Matrix: 203.0030.003

TANDY

1800 One Tandy Center
Fort Worth TX 76102

(817) 390-3300

► Payroll

Calculates earnings and deductions

Price \$399 purchase

Environment Computers: Tandy TRS-80 Model 12. Main storage: not specified. Source language: not specified.

Capabilities Calculates federal, state, and city withholding taxes. Calculates earned income credit. Prints payroll checks, check registers, and W2 forms. Automatically prints monthly, quarterly, and annual journals.

Description Payroll maintains records on up to 200 employees. It includes nine earnings, nine deduction, and seven worker's compensation categories. Payroll provides automatic unbalanced account detection, correction, and recovery. Options include time card calculations with automatic overtime and multidrive updates to the general ledger.

Compatibility Matrix: 203.0025.003

Features Matrix: 203.0030.003

STRUCTURED SYSTEMS GROUP (SSG)

5204 Claremont Ave
Oakland CA 94618

(415) 547-1567

► Payroll

A payroll system

Price \$595 purchase

Environment Computers: any microcomputer running under CP/M, MP/M-II, CP/M-86, MP/M-86, or PC DOS. Main storage: 48K bytes. Source language: CBASIC.

Capabilities Company history report. Pay transaction proof listing. Calculations proof listing. Employee history report. Employee master list. Pay checks. Check register. Payroll journal. Vacation report. W-2 forms; 940 and 941 reports. Interfaces to SSG general ledger, mailing list, or data base.

Description The SSG Payroll system handles a range of schedule variations, including vacations, sick leave, and comp time for active, on-leave, and terminated employees. Up to 20 earnings or deductions can be defined for all employees, and up to 8 earnings or deductions can be assigned to an individual employee. Reports include detailed auditing records for all transactions, including extensive reporting of withholding liabilities and total payroll cost by department, function, or project. All SSG accounting modules run under Window Master, SSG's multitasking windowing environment.

Compatibility Matrix: 203.0025.003

Features Matrix: 203.0030.003



TANDY

1800 One Tandy Center
Fort Worth TX 76102

(817) 390-3300

► Payroll

Tracks employee earnings, deductions, and taxes as well as employer contributions

Price \$200 purchase

Environment Computers: Tandy TRS-80 Model 4. Main storage: 64K bytes. Source language: not specified.

Capabilities Handles payroll tasks for up to three states simultaneously. Defines categories for FLSA and EEOC reporting, keeping historical records by period, quarter, and year.

Description Payroll processes up to 80 employees, each with up to nine earnings and nine deduction categories. It interfaces with the Tandy general ledger program. Payroll can be customized in accordance with local, state, and federal tax laws.

Compatibility Matrix: 203.0025.003

Features Matrix: 203.0030.003

TARANTO & ASSOCIATES

121 Paul Dr
San Rafael CA 94903

(415) 472-2670

► Payroll/Job Costing

An accounting system for numerous microcomputers

Price \$200 purchase

Environment Computers: microcomputers running under MS-DOS or PC DOS. Main storage: 64K bytes. Source language: BASIC.

Capabilities Calculates regular, overtime, and piecework payroll. Prints payroll checks, check journals, and 941A and W2 forms. Itemizes individual job costs. Maintains employee files. Prints withholding reports. Processes federal, state, and local withholding taxes. Provides for miscellaneous deductions, including tips. Processes hourly or salaried payroll. Provides after-the-fact payroll processing.

Description Payroll/Job Costing processes payroll information for up to 600 employees in multiple departments. The system features full tax computation and can process taxes from multiple states. Special taxable and nontaxable lump sums can be paid on a one-time or recurring basis. Nonstandard payroll checks, such as vacation, piecework, holiday, and overtime pay, can be processed.

Compatibility Matrix: 203.0025.003

Features Matrix: 203.0030.003

TCS SOFTWARE

3209 Fondren Rd
Houston TX 77063

(713) 977-7505

► TCS Payroll

A payroll system

Price Determined by dealer

Environment Computers: any microcomputer running under CP/M, PC DOS, or MS-DOS. Main storage: varies. Source language: Microsoft BASIC.

Capabilities System initialization. Set today's date. New pay period initialization. Calculate payroll. Prints pay checks and payroll register. End-of-month, quarter, and year processing. Employee file maintenance and inquiry. Employee file list. Tax file maintenance.

Description TCS Payroll prepares periodic payroll for hourly, salaried, and commissioned employees, while accumulating the necessary information for tax reporting. Files processed include an employee master file, a tax information file, and a general ledger interface file. Programs run by the system include the New Pay Period Initialization Program, the Payroll Calculations Program, the Payroll Print Checks Program, the Payroll Check Register Program, and the End of Month, End of Quarter, and End of Year Programs.

Compatibility Matrix: 203.0025.003

Features Matrix: 203.0030.003

TIMBERLINE SYSTEMS

7180 SW Fir Loop
Portland OR 97223

(503) 644-8155

► Medallion Payroll

A payroll accounting package

Price \$690 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT, Texas Instruments Professional, and Digital Equipment Rainbow 100 running under MS-DOS; IBM Displaywriter and Sage II and IV under UCSD p-System. Main storage: 128K bytes. Source language: UCSD Pascal.

Capabilities Interactive processing. Supports multiple types of pay and deductions. Prints checks and check stubs, indicating gross pay, deductions, and accumulated totals. Allows up to 20 nonstandard earnings per employee. Handles hourly and salaried payrolls and three overtime rates. Tracks meal and tip payments. Produces W2 forms. Automatically distributes payroll transactions to general ledger.

Description Medallion Payroll is designed to meet the payroll requirements of a variety of environments. The system maintains a file of all recurring employee and payroll information. This information is automatically retrieved as the operator inputs new payroll data. Paychecks are constructed on screen during data input, allowing operators to check payroll information.

Tax tables used by the Medallion Payroll system are easily updated by the user to reflect changes in tax laws. The system supports taxes for all 50 states.

Compatibility Matrix: 203.0025.003

Features Matrix: 203.0030.003



JOB COSTING

Compatibility Matrix

204.0025.001

Vendor/Package	Compatible Operating Systems																Others
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	UNIX	XENIX	
Argos Software ABECAS/Q			•				•			•							TurboDOS
Computer Options Automated Costing and Estimating (ACE)											•				•		
Construction Data Control Cost and Pricing System Job Cost			• •		• •		• •			• •							
Digital Marketing Milestone			•		•		•			•							
Great Plains Software Job Cost							•			•							Macintosh OS
Harvard Software Harvard Project Manager (HPM)							•			•							
International Micro Systems (IMS) Job Accounting			•		•		•		•	•							
MACS/Management and Computer Services ESTIMACS							•										
MCBA Job Costing							•			•					•	•	RM/COS
Micro Business Applications Job Cost		•	•		•		•	•		•							Concurrent DOS, TurboDOS
Micro Data Business Forms & Systems Contractor Job Cost			•		•												
Midwest Computer Center Job Costing			•														
North America MICA PMS-II			•		•		•			•							
Open Systems Job Cost			•		•		•	•	•	•	•	•				•	M-BOS, TurboDOS
Peachtree Software Job Cost System			•							•							
Solomon Series Software Job Costing							•			•							
Southwest Systems Cost Estimating Job Cost Accounting												• •					
Trac Line Software P.E.R.T.—Project Evaluation & Review Technique							•			•	•				•	•	

Vendor/Package	Compatible Operating Systems															Others	
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	UNIX		XENIX
Westico MicroGANTT			•				•			•							
Westminster Software Pertmaster			•				•			•							

JOB COSTING

Features Matrix

204.0030.001

Vendor/Package	System Capabilities													
	Accounting Interface	Actual vs Budget	Cost Subcategories	CPM/PERT	Estimation	Job & Phase Inquiry	Markup	Materials Allocation	Multiple Jobs	Overhead Costs	Report by Period	Report by Job	User Accounts	User Reports
Argos Software ABECAS/Q	•	•	•					•						
Computer Options Automated Costing and Estimating (ACE)		•	•		•	•	•	•	•			•		
Construction Data Control Cost and Pricing System Job Cost	•	•	•		•		•		•			•		•
Digital Marketing Milestone			•	•	•						•			
Great Plains Software Job Cost	•	•	•		•	•	•		•	•	•	•	•	•
Harvard Software Harvard Project Manager (HPM)			•	•	•					•	•	•		
International Micro Systems (IMS) Job Accounting	•	•				•					•	•		
MACS/Management and Computer Services ESTIMACS			•	•	•	•				•	•			
MCBA Job Costing	•	•	•		•	•	•	•	•	•	•	•	•	•
Micro Business Applications Job Cost	•	•	•		•	•	•		•	•	•	•	•	•
Micro Data Business Forms & Systems Contractor Job Cost	•	•			•			•			•	•	•	
Midwest Computer Center Job Costing		•			•				•	•	•	•	•	
North America MICA PMS-II			•	•							•			
Open Systems Job Cost	•	•				•			•					
Peachtree Software Job Cost System	•	•	•		•		•		•					
Solomon Series Software Job Costing	•	•	•		•	•	•	•	•	•	•	•	•	•
Southwest Systems Cost Estimating Job Cost Accounting		•	•		•	•	•		•		•	•	•	
Trac Line Software P.E.R.T.—Project Evaluation & Review Technique	•			•		•								
Westico MicroGANTT				•						•	•			
Westminster Software Pertmaster				•				•		•	•			

JOB COSTING

Product Summaries

ARGOS SOFTWARE

790 W Shaw Ave
Suite 360
Fresno CA 93704

(209) 221-7211

► ABECAS/Q

An agribusiness cost accounting system

Price \$2,775

Environment Computers: those running under CP/M, PC DOS, MS-DOS, Turbo DOS. Main storage: 64K bytes for CP/M, 256K for all others. Source language: ARGOL.

Description ABECAS/Q is a cash-based cost accounting package for such agribusinesses as farms, ranches, and equipment contractors. This simplified yet complete version of the full ABECAS system may be upgraded at any time by substituting the appropriate modules. The system features budget, historical data, and multicompartmental capabilities and includes the ability to separately record and report owner contributions for labor, capital, and management. It is configured at installation to meet requirements of individual users.

Compatibility Matrix: 204.0025.001

Features Matrix: 204.0030.001

COMPUTER OPTIONS

142 Crescent St
Brockton MA 02402

(617) 580-8800

► Automated Costing and Estimating (ACE)

An accounting package for Altos microcomputers

Price Vendor declined to provide

Environment Computers: Microcomputers running under OASIS or UNIX. Main storage: 128K bytes. Source language: OASIS BASIC.

Description ACE is a complete job cost and estimating package for sheetmetal, tool-and-die, screw, and spring manufacturers. It provides the ability to enter jobs through estimating or directly to job cost control and allows the user to track each job from the initial order to shipping the final product. Job status reports for each job include materials used, outside services required, all work centers involved, individual employee contributions, percent of completion, and profit margin from estimated to actual cost.

Compatibility Matrix: 204.0025.001

Features Matrix: 204.0030.001

CONSTRUCTION DATA CONTROL

6140 N Belt Pkwy
Norcross GA 30071

(404) 448-4722

► Cost and Pricing System

A cost estimating system

Price \$1,500

Environment Computers: any computer based on CP/M, CP/M-86, PC DOS, or MS-DOS. Main storage: 64K bytes for CP/M, 128K for all others. Source language: CBASIC.

Description The Cost and Pricing System is an accounting system that enables the estimator to prepare uniform and typewritten detail cost estimates that are free from addition and multiplication errors. The system allows item and price additions in the catalog, which is generated and maintained by the estimator. The system keeps track of the last item estimated in a particular category and the category status as a built-in check sheet to ensure a complete estimate. Markups, such as sales tax and profit, can be factored in at the category level or for the summary. Printed reports include input log, line item listing, category status, category listing, detailed estimate, estimate summary, work location, and price catalog list.

Compatibility Matrix: 204.0025.001

Features Matrix: 204.0030.001

CONSTRUCTION DATA CONTROL6140 N Belt Pkwy
Norcross GA 30071

(404) 448-4722

► Job Cost

A job cost tracking system

Price \$1,500**Environment** Computers: any computer based on CP/M, CP/M-86, PC DOS, or MS-DOS. Main storage: 64K bytes for CP/M, 128K for all others. Source language: CBASIC.**Description** Job Cost is an accounting system that can operate independently or be linked to the accounts payable or payroll systems for automatic job tracking. All supplier, subcontractor, and direct labor costs are segregated and can be automatically entered from other systems. The system monitors actual expenditures and provides cost-to-complete projections. The report writer has built-in flexibility to allow selection of complete trade reports by detail or summary.**Compatibility Matrix:** 204.0025.001**Features Matrix:** 204.0030.001

DIGITAL MARKETING CORP2363 Boulevard Circle
Walnut Creek CA 94595

(805) 499-5831

► Milestone

A project scheduling and management system

Price \$250**Environment** Computers: those running under CP/M, CP/M-86, PC DOS, or MS-DOS. Main storage: 64K bytes for CP/M, 128K for all others. Source language: Pascal.**Description** Milestone is an interactive, menu-driven project management system that uses critical path analysis techniques, such as Project Evaluation and Review Technique (PERT) and Critical Path Method (CPM). Milestone can determine the costs and completion dates for each activity involved in a project as well as for the entire project. Project assumptions can be easily changed by the user for interactive modeling. The project plan can be printed or displayed as either a summary cost/time table and PERT chart or a Gantt chart.**Compatibility Matrix:** 204.0025.001**Features Matrix:** 204.0030.001

GREAT PLAINS SOFTWARE1701 SW 38th St
Fargo ND 58103

(701) 281-0550

► Job Cost

A cost accounting package

Price \$695**Environment** Computers: Apple Computer Apple IIe, Apple III, and Macintosh; NCR Decision Mate V; Wang PC; TI Professional; and any computer completely compatible with the IBM Personal Computer. Main storage: 128K or 256K bytes depending on machine. 5MB Winchester disk required. Source language: UCSD Pascal.**Description** Job Cost is one of the Harddisk integrated accounting modules offered by Great Plains. All modules can be purchased separately and run as standalone systems or integrated into a total accounting system. Job Cost handles numerous jobs from estimate through bid to completion. The package produces progress reports that can be printed at any time to show job status. Billing by firm bid or cost plus is accommodated, and flexible overhead charging and wage-sensitive costing are allowed. The package can calculate unbilled costs and override computer billing amounts. Management reports analyze expenses, variances from estimates, and order changes. The system supports three types of billing: fixed price, cost plus, or cost plus with a maximum billing. The user can define labor, equipment, material, overhead, and miscellaneous items. Profits are calculated as percentage of flat rate for each aspect of a job, and overhead is calculated based on labor dollars, material dollars, or a flat amount. Estimates are presented for whole jobs or by components. The system also allows what-if projections, permitting different estimates for all possible sets of circumstances. Job Cost comes in either single- or multiuser versions with tutorials and sample data. Great Plains also maintains a product support staff to handle user inquiries.**Compatibility Matrix:** 204.0025.001**Features Matrix:** 204.0030.001

HARVARD SOFTWARE

Harvard MA 01451

(617) 486-8431

► Harvard Project Manager (HPM)

A project management package

Price \$395 purchase**Environment** Computers: those running under PC DOS. Main storage: 128K bytes. Source language: C.

Description Harvard Project Manager (HPM) uses two traditional, graphics-oriented project management techniques: the Critical Path Method (CPM), and Program Evaluation and Review Technique (PERT). HPM dynamically partitions the display screen, enabling the user to change the project map and simultaneously monitor the impact of the change on task durations and the project schedule. HPM displays high-resolution graphics on display screens and dot matrix printers. HPM also supports windowing and horizontal and vertical scrolling.

Compatibility Matrix: 204.0025.001**Features Matrix:** 204.0030.001**INTERNATIONAL MICRO SYSTEMS (IMS)**

6445 Metcalf

Shawnee Mission KS 66202

(913) 677-1137

► Job Accounting

A job reporting system

Price \$650

Environment Computers: those running under CP/M, CP/M-86, MP/M-86, PC DOS, or MS-DOS. Main storage: 64K bytes for CP/M, 128K for all others. Source language: CBASIC 2.

Description The IMS Job Accounting System provides financial reports at the individual job level that detail budgeting by job, actual versus budgeted expenses, and budgeted funds not yet committed. Output includes balance sheets, profit and loss statements, a transaction posting register, a budgeted revenues and expenditures report, account inquiries, and a general ledger posting report.

Compatibility Matrix: 204.0025.001**Features Matrix:** 204.0030.001**MACS/MANAGEMENT AND COMPUTER SERVICES**

Great Valley Corporate Center

Valley Forge PA 19482

(215) 648-0730

► ESTIMACS

An interactive software development cost estimating system

Price \$15,000

Environment Computers: those running under PC DOS. Main Storage: 128K bytes. Source language: BASIC.

Description ESTIMACS is an interactive software system that generates estimates of time, cost, staffing, hardware, and cumulative resource requirements involved in the development of mainframe software. It consists of six subsystems:

- System Development Effort Estimator—Estimates software development effort in terms of total effort hours.
- Staffing and Cost Estimator—Estimates manpower needed at each skill level over the software project life cycle.
- Hardware Configuration Estimator—Estimates hardware configuration requirements in terms of required CPU power and I/O components.
- Portfolio Estimator—Estimates the cumulative resource needs, related costs, and relative risks of concurrent projects.
- Financial Analysis—Estimates break-even point, return on investment, and net present value.
- Maintenance/Enhancement Effort Estimator—Estimates software maintenance in terms of total effort hours. Also reports distribution of effort hours over specified life cycle phases and delimits the relationship of each major input factor to the total estimate.

Compatibility Matrix: 204.0025.001**Features Matrix:** 204.0030.001

MCBA

2441 Honolulu Ave
Montrose CA 91020

(818) 957-2900

► Job Costing

A cost reporting and variance analysis package

Price Vendor declined to provide

Environment Computers: those running under XENIX, UNIX, PC DOS, MS-DOS, or RM/COS. Main storage: 128K bytes. 10MB Winchester disk required, 20MB recommended. Source language: RM/COBOL.

Description Job Costing is part of an integrated accounting package offered by MCBA. The job cost master file is interactively maintained and has add, change/inquire, and delete capabilities. Completed jobs can be selectively purged from the system, along with all associated transaction data. Job Costing produces cost tables for burden rate, job type, job status code, cost type, work center, department, labor grade, raw material, work in process, and finished goods. Note transactions provide for entry of comments about the products being made in a job. To save time in entering new jobs, existing jobs can be copied in detail and modified to fit the new circumstances. Job costs and work-in-process figures are posted on request to user-defined accounts in MCBA's General Ledger package. Any report generated by Job Costing can be spooled to a disk file. The user can later review what reports are currently stored on disk and print selected ones, starting at any page within the report. Multiple company support allows up to eight companies to use the system at any time. The security system allows up to 200 passwords and provides access restrictions at the file level by company. Cost analysis reports can be run at any time in the life of a job to show actual, planned, and variance costs to date. The Total Cost Analysis by Job Report can summarize each job or give details about items or operations. The Material Cost Analysis by Job Report can show material detail and job notes or segment material variance into price variance, yield variance, and quantity variance. The Material Cost Analysis by Department and Work Center Report can be printed for selected departments or work centers. It shows the amount and percent of material variance by cost type and gives a breakdown by price, yield, and quantity. The Labor Cost Analysis by Job Report shows total labor variance amounts and percents and can be printed with labor detail and job notes. If labor detail is selected, a further breakdown of rate variance, performance variance, and labor hours variance is printed. The Labor Cost Analysis by Department and Work Center Report can be printed for selected departments and work centers and shows the same types of labor variances as the Labor Cost Analysis by Job Report.

Compatibility Matrix: 204.0025.001
Features Matrix: 204.0030.001

MICRO BUSINESS APPLICATIONS INC

12281 Nicollet Ave S
Burnsville MN 55337

(612) 894-3470

► Job Cost

A job cost accounting package

Price \$595

Environment Computers: those running under CP/M, CP/M-86, PC DOS, MS-DOS, Concurrent DOS, TurboDOS, MP/M, or Concurrent CP/M-86. Main storage: 64K bytes for 8-bit systems, 128K for 16-bit systems, and 256K for systems running under Concurrent DOS. Source language: MS COBOL.

Description The Job Cost system tracks costs for project-oriented businesses. Each job is divided into phases with cost categories defined by the user. Costs can be defined in units or in dollars. To speed entry, phase definitions can be copied from a previous entry or library of jobs and modified for new jobs. Overhead can be allocated as a percentage of a cost or as a fixed amount. Costs can be defined as billable or nonbillable, and billing rates can be separately defined for each phase. Costs can be determined as fixed fees, percentage of costs, or time and materials costs. The system monitors the status of each phase of a job, monitors current costs, and projects costs and profits. Micro Business Applications provides support through toll-free telephone lines. The Job Cost package is part of a Micro Business Applications integrated accounting package that includes the General Ledger, Accounts Payable, Accounts Receivable, Payroll, and Inventory programs.

Compatibility Matrix: 204.0025.001
Features Matrix: 204.0030.001

MICRO DATA BUSINESS FORMS & SYSTEMS

5707 Lacey Blvd
#104
Olympia WA 98503

(206) 459-3300

► Contractor Job Cost

An accounting system

Price \$400

Environment Computers: those running under CP/M or CP/M-86. Main storage: 48K bytes. Source language: CBASIC 2.

Description The Contractor Job Cost accounting system provides menu-selection entry and allows user-defined customer numbers and service codes. The system supports an unlimited number of jobs and provides direct updating of actual costs against estimated costs on both material and labor, with month-to-date and total-to-date totals.

Compatibility Matrix: 204.0025.001
Features Matrix: 204.0030.001



MIDWEST COMPUTER CENTER5785 Merle Hay Road
Johnston IA 50131

(515) 276-3387

► Job Costing

An accounting system

Price \$795 purchase**Environment** Computers: CP/M-based computers. Main storage: 64K bytes. Source language: FORTRAN.**Description** The Job Costing accounting system sets up a job ledger to accumulate all incomes, materials, and labor costs against a particular job, allowing for up to 364 active jobs at any one time. The user can control the level of detail with available reports for literally any time period, listing any number of jobs. Jobs can be monitored at any point as they progress toward completion; final reports show actual net income generated. Direct and indirect overhead can also be allocated to jobs via journal entries.**Compatibility Matrix:** 204.0025.001**Features Matrix:** 204.0030.001

NORTH AMERICA MICA5230 Carroll Canyon Rd
Suite 110
San Diego CA 92121

(619) 458-1327

► PMS-II

A critical path scheduling package

Price \$1,295 purchase**Environment** Computers: those running under CP/M, CP/M-86, PC DOS, or MS-DOS. Main storage: 64K bytes for CP/M, 128K for all others. Source language: CBASIC.**Description** PMS-II is a project control and analysis system that provides critical-path method network analysis. Taking into account some 1,200 activities, PMS-II provides output in the form of funding schedules, activity reports and diagrams, net change reports, and Gantt charts.**Compatibility Matrix:** 204.0025.001**Features Matrix:** 204.0030.001

PEACHTREE SOFTWARE3445 Peachtree Rd NE
Atlanta GA 30326

(404) 239-3000

► Job Cost System

A job cost tracking system

Price \$595**Environment** Computers: microcomputers running under CP/M or MS-DOS. Main storage: 64K bytes (CP/M), 128K bytes (MS-DOS). Source language: Microsoft BASIC.**Description** The Job Cost System enables users to measure differences between estimated and actual costs by both project and cost category. The Job Cost System allows more accurate competitive bids to be developed, and it can pinpoint potential problems in project cost and progress.**Compatibility Matrix:** 204.0025.001**Features Matrix:** 204.0030.001

SOLOMON SERIES SOFTWARE

267 Great Valley Pkwy
Malvern PA 19355

► Job Costing

A cost accounting package

Price \$995

Environment Computers: those running under PC DOS or MS-DOS. Main storage: 256K bytes. Source language: C.

Description Job Costing is a multicompany, multi-division accounting system designed for general-purpose business systems. File capacity on the system is limited only by the amount of disk storage available. To make entry easier, data entry screens can be configured to resemble documents from which data is taken. All data and reports are automatically sorted at the time of data entry. Extensive audit trails isolate an entry to the session at which the transaction was recorded and the document from which the information came. Job Costing provides flexible user definitions of job, phase, and cost type structure. Both original and revised budgets and contract amounts are carried in the system. The package supports fixed fees, costs and percentage of costs, time and materials costs, internal job types, and five status levels for each job. The system computes current and projected variances, estimates costs or units to complete, and calculates amounts to bill and relieve from work-in-process, based on percent complete. Job Costing is part of an integrated accounting package of 10 separate modules offered by Solomon Series Software. Job Costing uses passwords for security. Solomon Series Software offers a demonstration that teaches users how to set up and use the system. In addition, the system includes a help function.

Compatibility Matrix: 204.0025.001
Features Matrix: 204.0030.001

SOUTHWEST SYSTEMS

PO Box 81536
San Diego CA 92138

(619) 223-7800

► Cost Estimating

An accounting system

Price \$150 purchase

Environment Computers: Tandy TRS-80 Model I, III, and IV microcomputers. Main storage: 48K bytes. Source language: Microsoft BASIC.

Description Cost Estimating is an accounting system for the manufacturing and food-service industries. The Manufacturing Cost Estimating System enables the user to determine the actual cost of items being manufactured. Computations are made on a hierarchical structure from raw materials through component parts and subassemblies up to end items. The system handles material and labor costs, as well as other manufacturing

costs, such as those of expendables used in the fabrication or assembly process. Overhead percentages, such as transportation costs and markup, may be automatically added by the system to project a recommended selling price for end items. The Food Service Cost Estimating System uses the same estimating system, but is adapted to the food-service industry.

Compatibility Matrix: 204.0025.001
Features Matrix: 204.0030.001

SOUTHWEST SYSTEMS

PO Box 81536
San Diego CA 92138

(619) 223-7800

► Project Cost

An accounting system

Price \$150

Environment Computers: Tandy TRS-80 Model I, III, and IV microcomputers. Main storage: 48K bytes. Source language: Microsoft BASIC.

Description Job Cost Accounting enables the user to track job-related costs and compare them to pre-established budgets. Approximately 3,200 job cost detail records can be stored on each double-density diskette. The system allows up to 50 different user-defined categories. Budget information can be established for each category. The system also accepts job cost detail information at any frequency and can accommodate up to 100 such records at a time. Job Cost Accounting provides an audit trail report of job cost detail records and a summary report showing cumulative job costs by budget category.

Compatibility Matrix: 204.0025.001
Features Matrix: 204.0030.001



TRAC LINE SOFTWARE51 Alpha Plaza
Hicksville NY 11801

(516) 935-7500

► P.E.R.T.—Project Evaluation & Review Technique

A critical path analysis tool

Price Purchase: \$550 (with M-TRAC), \$1,100 (standalone)**Environment** Computers: those running under OA-SIS, PC DOS, MS-DOS, UNIX, or XENIX. Main storage: 256K bytes. Source language: COBOL.**Description** P.E.R.T. fully integrates with Trac Line Computer's manufacturing business system (M-TRAC) or stands alone. It calculates various confidence levels for job completion and includes more than 55 reports. It diagrams projects into networks of tasks that lead to a final goal. Potential bottlenecks can be easily identified and corrected.**Compatibility Matrix:** 204.0025.001
Features Matrix: 204.0030.001**► Pertmaster**

A forecasting program for making critical path analyses of multiactivity projects

Price \$695 purchase**Environment** Computers: microcomputers running under CP/M, MS-DOS, PC DOS, or MP/M. Main storage: 64K bytes. Source language: not specified.**Description** Pertmaster can sort and chart the constituent activities of a project by their chronological or alphabetical order or their order of urgency. The program produces numerous reports, including detailed listings, histograms and cash flows, project and period bar charts, and S-curves with autoscaling. Other charts allow users to chart input for periodic review. Because charts are printed in character format, Pertmaster does not require a printer with graphics capabilities. However, it does need a printer with a line capacity of at least 132 characters.**Compatibility Matrix:** 204.0025.001
Features Matrix: 204.0030.001

WESTICO25 Van Zant St
Norwalk CT 06855

(203) 853-6880

► MicroGANTT

A critical path scheduler

Price \$395 purchase**Environment** Computers: those running under CP/M, PC DOS, or MS-DOS. Main storage: 64K bytes for CP/M, 128K for all others.**Description** MicroGANTT is a critical path method of job and task scheduler preparation. It can also monitor the relationships between the elements of a project in terms of time, man-hours, and costs as estimated schedules are developed and updated to meet contract deadlines. Input to MicroGANTT is a tentative or final schedule of the elements necessary for a project to be completed on time by percentage of completion of previous elements and by hours of labor and wage rates. Output is a Gantt chart showing the computed starting date for each element or task, the length of time necessary for its completion, and the completion date for the entire project.**Compatibility Matrix:** 204.0025.001
Features Matrix: 204.0030.001

WESTMINSTER SOFTWARE3000 Sand Hill Rd
Bldg 4 Suite 245
Menlo Park CA 94025

(415) 424-8300

VISICORP

2895 Zanker Rd
San Jose CA 95134

(408) 946-9000

► VisiSchedule

An accounting system

Price \$300 purchase

Environment Computers: Apple II, Apple III, and IBM Personal Computer. Main storage: 48K bytes, 128K bytes, and 64K bytes, respectively. Source language: varies.

Description VisiSchedule is an accounting system that instantly shows skill levels, costs, and critical path among project tasks. It allocates costs, specifies earliest and latest starting dates, slack times, holidays, prerequisites, and deadlines for each task. The system instantly displays the impact of changes in data when there is a move, slip, or change in any task, skill level, or cost. VisiSchedule can transfer data to other VisiCorp programs.

Compatibility Matrix: 204.0025.001

Features Matrix: 204.0030.001

INTEGRATED ACCOUNTING

Compatibility Matrix

205.0025.001

Vendor/Package	Compatible Operating Systems														Others		
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS 16	TRSDOS	USCD p-System		UNIX	XENIX
Alexander Grant & Co GBSm							•			•							
Argos Software ABECAS			•		•		•			•							
Armor Systems Excalibur Plus			•		•		•	•	•	•					•	•	ZDOS, GDOS, TurboDOS
BPI Systems General Accounting	•						•			•							
Champion Software Champion Business Accounting Software			•		•		•			•							
Great Plains Software Hardisk Accounting Series							•			•							Macintosh/OS
Groundstar Software General Accounting											•						
HAI SOFTWARE HAI*LINE			•							•							
IBM Business Management Series							•										
International Micro Systems IMS Financial System			•		•		•	•	•	•							
Intro-Logic Financial Software Series			•					•									
MCBA Accounting System							•			•					•	•	RM/COS
MCC Software Accounting Software Series			•														
M & D Systems Business Software Package			•		•		•			•							
Micro Business Applications Accounting System Package			•		•		•	•		•							Concurrent DOS, TurboDOS
Micro Data Integrated Accounting Software Series			•		•												
Miracle Computing Income			•		•			•	•	•							
Neal Nelson & Associates Accounting Series Software															•		
SMC Software Systems Thoroughbred Accounting Software Series							•			•					•	•	Thoroughbred/OS

Vendor/Package	Compatible Operating Systems															Others	
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS 16	TRSDOS	USCD p-System	UNIX		XENIX
Softech Information Systems AccountMate II Software Series			•				•			•							
The Software Express Financial Series Accounting Software															•	•	Pick, BSD 4.2, RSTS, RSXII
Solomon Series Software Solomon III General Accounting							•			•							
Star Software Systems Accounting Partner II			•	•			•	•	•	•							
Structured Systems Group Accounting Software System			•	•			•	•	•								
Timberline Systems Medallion Collection Accounting System							•			•							

INTEGRATED ACCOUNTING

Features Matrix

205.0030.001

Vendor/Package	System Capabilities																
	Accounts Payable	Accounts Receivable	Aging	Audit Trail	Budget/Forecast	Cash Flow	Check Printing	Commission Splits	Companies/Branches	Depreciation	Error Detection	General Ledger	Income Statements	Integrated Posting	Inventory	Modular	Payroll
Alexander Grant & Co GBSm	•	•	•		•	•					•	•	•	•	•	•	•
Argos Software ABECAS	•	•	•	•	•	•	•		•		•	•	•	•	•	•	•
Armor Systems Excalibur Plus	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BPI Systems General Accounting	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Champion Software Champion Business Accounting Software	•	•	•	•			•				•	•	•	•	•	•	•
Great Plains Software Hardisk Accounting Series	•	•	•	•	•		•	•	•			•	•	•	•	•	•
Groundstar Software General Accounting	•	•										•		•		•	•
HAI SOFTWARE HAI*LINE	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IBM Business Management Series	•	•	•	•	•	•	•		•		•	•	•	•	•	•	•
International Micro Systems IMS Financial System	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•
Intro-Logic Financial Software Series	•	•										•				•	
MCBA Accounting System	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MCC Software Accounting Software Series	•	•	•	•	•			•				•	•	•	•	•	•
M & D Systems Business Software Package	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Micro Business Applications Accounting System Package	•	•	•	•	•		•	•	•		•	•	•	•	•	•	•



Vendor/Package	System Capabilities																
	Accounts Payable	Accounts Receivable	Aging	Audit Trail	Budget/Forecast	Cash Flow	Check Printing	Commission Splits	Companies/Branches	Depreciation	Error Detection	General Ledger	Income Statements	Integrated Posting	Inventory	Modular	Payroll
Micro Data Integrated Accounting Software Series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Miracle Computing Income	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Neal Nelson & Associates Accounting Software Series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SMC Software Systems Thoroughbred Accounting Software Series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Softech Information Systems AccountMate II Software Series	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
The Software Express Financial Series Accounting Software	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Solomon Series Software Solomon III General Accounting	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Star Software Systems Accounting Partner II	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Structured Systems Group Accounting Software System	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Timberline Systems Medallion Collection Accounting System	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

INTEGRATED ACCOUNTING

Product Summaries

ALEXANDER GRANT & CO

555 Capitol Mall
Suite 300
Sacramento CA 95814

(916) 441-7232

► GBSm (General Business System for Microcomputers)

An integrated accounting package

Price On request

Environment Computers: IBM Personal Computer and Compaq, Wang, and NCR microcomputers. Main storage: 64K bytes. Source language: CBASIC.

Capabilities General ledger: account balancing and error checking controls. Supports budgeting and job costing. Flexible chart of accounts and financial statement. Twenty-six journals. Features graphing of monthly activity. Accounts receivable: open-item or balance-forward accounting. Tracks receivables. Maintains customer histories. Monitors credit levels. Variable account aging based on credit terms. Establishes payment books for contract receivables. Payroll: flexible earnings categories and payroll schedules. Up to 26 user-defined deductions. Multistate tax calculations. Prints W-2 forms. Labor distribution capabilities. Integrated with job costing and general ledger. Accounts payable: invoice distribution. Automated term and discount management. Cash or accrual accounting. Flexible payment scheduling. Integrated with general ledger and job costing. Inventory: reports current on-hand, allocated, and on-order inventory status. Multilocation. Supports multiple pricing levels and automatic inventory valuation. Reorder point and stock level analysis. LIFO, FIFO, or weighted average costing methods. Bills of material.

Description GBSm is an enhanced version of a comprehensive set of accounts receivable, accounts payable, inventory, payroll, and general ledger modules. Alexander Grant & Co includes extensive on-site planning and installation support with the purchase of GBSm.

ARGOS SOFTWARE

PO Box 5438
Fresno CA 93755

(209) 221-7211

► ABECAS

An integrated cost accounting system

Price \$5,170, 6-module single-user system; \$7,770, 6-module multiuser system

Environment Computers: those running CP/M-80, CP/M-86, PC-DOS, MS-DOS, and TurboDOS operat-

ing systems. Main storage: 64K bytes for CP/M-80; 192K bytes for CP/M-86, PC-DOS, and MS-DOS; and 128K bytes for TurboDOS. 10M-byte Winchester disk storage required, 20M bytes recommended. Source language: ARGOL Assembly.

Capabilities A multi- or single-user general-business accounting system with file lockout. The system is an integrated cost accounting package that simultaneously maintains both a cash- and accrual-basis general ledger. Each transaction, such as an invoice or time card, needs to be entered once. It is then automatically posted to the appropriate ledgers as well as to the cost accounting system.

Description The system consists of the following modules: general ledger, cost accounting, accounts receivable, accounts payable, inventory management, and payroll. The general ledger module allows a user-defined chart of accounts as well as a customized department setup. Multiple companies can also be online within the same system. Reports include code listings, transactions listings, income statements in summary or detail format, balance sheets in summary or detail format, prior-year comparisons, and budget comparisons. The cost accounting module automatically receives relevant costs and revenues for each cost center. Cost centers can be selected and defined by the user. These cost centers then can be grouped by the user for reporting purposes. Account information can be maintained for 14 periods (12 user-defined months plus pre- and postperiods). Cost center input, costs, and revenues are tracked by activity. Reports include account balances and history, cost center report by activity, and account and budget comparisons. The accounts receivable module provides for user-defined customer codes and terms. Transactions are done on an open-item basis; and receipts, partial receipts, discounts, and other items are applied against these open items. Reports include cash receipts, open item, and aging. The accounts payable module prints checks automatically and supports inventory purchases. Transactions are maintained as vouchers on an open-item basis. Payments, partial payments, discounts, returns, and adjustments are automatically applied against open items. Invoices selected for payment can be reviewed before the check is written to ensure data integrity and can be modified. Reports include vouchers selected for payment, open vouchers, cash requirements projections, aging, and 1099 forms. Inventory management provides control over items purchased but not yet used. When used, items are charged to the cost center. Item status within the system includes on-hand and unavailable items. The module supports multiple warehouses and subwarehouses. Inventory valuation methods are average, last, and standard costing. Item

codes and product categories can be defined by the user. Reports include item codes and descriptions, warehouse codes, status, physical count worksheet, inventory activity, and inventory reorder. Payroll is calculated automatically as are all deductions. Deductions, contributions, and multiple tax tables can be user-defined. Salaried, hourly, piece rate, and hourly/piece rate combinations are tracked and supported on the system. Reports include employee codes and descriptions, tax schedules, work crew field list, payroll register, W-2s, 941s, and 943s.

ARMOR SYSTEMS

324 N Orlando Ave
Maitland FL 32751

(305) 629-0753

► Excalibur Plus

An integrated accounting system

Price \$6,540, 12-module package

Environment Computers: those running CP/M, CP/M-86, MP/M, MP/M-86, MS-DOS, PC-DOS, ZDOS, GDOS, TurboDOS, XENIX, and UNIX operating systems. Main storage: 64K bytes for 8-bit machines, 128K bytes for 16-bit machines; 5M-byte Winchester disk required, 10M-byte disk recommended. Source language: ARC.

Capabilities Composed of 12 modules, the Excalibur Plus series can be run as a fully integrated accounting system or as separate standalone packages. The system supports up to 103.2M bytes of information and programs. The general ledger program handles 29,000 entries per month and the order entry program accepts up to 29,000 entries per day. The accounts receivable program produces an analysis of costs and sales for up to 99 departments; the billing program produces shipping labels, UPS manifests, and UPS summary sheets. The counter sales program produces both narrow register receipts and 8-1/2-x-11-inch invoices and prints picking tickets. All modules are written in ARC, Armor's own language. The structure of ARC enables users to create custom reports like invoices, income statements, paychecks, and mailing labels through a report generation feature. All modules have networking capabilities built in and are multiuser and multitasking. There is also a provision for password protection of client information through an integrated record lock.

Description The system package consists of the following modules: general ledger, accounts receivable, payroll, billing, work in process, customer information, accounts payable, inventory, purchase orders, order entry, counter sales, and depreciation. The general ledger module stores an unlimited amount of chart-of-accounts numbers and maintains multiple sets of separate records for different companies on same data disk. Records for a new client can be established from a previous client's records, without transferring balances. The system also maintains after-the-fact payroll. The payroll module can calculate time-card hours and distribute expenses for

29,000 cost centers. Dues for multiple unions can be calculated through use of either a percent computation or a fixed dollar amount. Reports include information concerning such matters as workers' compensation and tax preparation. The payroll module also handles payroll for salaried, hourly, commissioned, piece work, and tipped employees. The accounts receivable module includes automatic posting of time payments, charges, salesmen, reports, customer profitability analyses, inquiries of total amounts receivable, and analysis of costs and sales for up to 99 departments. It prepares customer statements with detailed and full aging analysis. The user is given the option to bill accounts by using the open invoice, balance-forward, or straight balance-forward method. The work-in-process module tracks all labor and material information on specific work orders or jobs. The system also enables users to set up a work order as an estimate, post estimate data to the system, and transfer the estimate into an actual work order at a later date. The user can generate a detailed variance report that projects potential gains or losses, by function, for each work order. Full or partial billing can be prepared on the basis of estimate totals, actual time and materials, or cost plus percent. Reports generated by this module provide an audit trail of all work orders, estimates, and billing invoices. The order entry module enables users to process and track all orders and prepares status reports showing items on order, the customer's order status, and the order status by order date or expiration date. The package also prints picking tickets. The counter sales module allows the terminal to function as a cash register and to interface with an electronic cash drawer. This module balances the cash drawer at the end of the day and generates a daily summary showing grand and preset item totals. It automatically updates accounts receivable, inventory, and general ledger modules and prints picking tickets. The billing module computes UPS shipping rates and adds charges to invoices. It also prepares shipping labels, UPS manifests, and UPS summaries. The inventory module handles parts for explosion for manufacturing environments. It recognizes regular inventory, noninventory, and serial-numbered inventory item numbers. Costs can be controlled through LIFO, FIFO, or the average-cost method. Part numbers can be cross-referenced, and each item can have multiple prices. The system prints floor plan projections and status reports. The customer information module is a small data base system that maintains information on prospects and customers. Information can be sorted as desired and printed in label or report format. The accounts payable module is part of a package that includes the automatic generation of general ledger postings, postings of repetitious payables, and verification of chart-of-account numbers. Invoices and payments are also posted. Depreciation of assets can be calculated through any one of six methods, at any rate from 100 to 200 percent. The system accommodates either calendar or fiscal years. Assets can be listed with current or year-to-date depreciation. The purchase orders module enable the user to create, change, delete, or view purchase orders and their details. This module allows posting of



all purchase order information to the inventory module. It also prints item and vendor status reports, order schedules, and cash flow analyses and automatically creates purchase orders based on Inventory Below Minimum report. This module also transfers information to and from the accounts payable module.

Videotape training tapes are available from dealers at \$35 each. A separate one-hour tape is available for each module. Updates of the Excalibur line are sent to the user at no charge.

Excalibur Plus integrates with such productivity software as The Lotus 1-2-3 and Symphony as well as with the Ashton-Tate dBase and Framework. Information can be transferred between Excalibur Plus as an accounting application and the productivity software.

BPI SYSTEMS

3423 Guadalupe
Austin TX 78705

(512) 454-4677

► General Accounting

An integrated accounting package

Price \$395 to \$595 purchase, depending on system and module

Environment Computers: Apple IIe, III, and Lisa; IBM Personal Computer; any microcomputer running under CP/M. Main storage: varies. Source language: BASIC.

Capabilities General ledger: Full financial reporting. Standardized data input and double-entry posting. Detailed transaction ledger for accounts receivable, accounts payable, and payroll. Maintains historical information (Apple III and Lisa versions only). Accounts receivable: Balance-forward or open-item accounting. Account aging. Maintains customer histories. Customized statements. Accounts payable: Maintains subsidiary payables ledger. Ages accounts. Cash requirements forecasting by period. Cash or accrual accounting. Check printing. Bank statement reconciliation. Inventory: Inventory control and costing, using FIFO, LIFO, or weighted-average costing methods. Maintains detailed vendor and product information. Monitors stock levels and automatically produces purchase orders for items below user-specified stock levels. Payroll: Calculates and accumulates earnings, taxes, and deductions for salaries, hourly wages, and commissions. Up to six customized payroll deductions. Allows payroll to be charged back automatically to departments. Job cost: Job costing using labor and material activity. Job status reporting on actual versus estimated costs. Absolute or percentage variances. Percentage of job complete. Applies income from job to job-specific, profit-and-loss statement. Interfaces to accounts payable, payroll, and general ledger.

Description General Accounting features a cash sales journal for use in cash-register-oriented retail environments. The system processes transactions and requests

for reports interactively, enhancing ease of use and data reliability.

CHAMPION SOFTWARE

17301 W Colfax Ave #25
Golden CO 80401

(303) 278-8666

► Champion Business Accounting Software

An integrated accounting package

Price \$2,475, 5-module package for 8-bit machines; \$2,975, 5-module package for 16-bit machines. Source code is available for \$500 per module

Environment Computers: those machines based on the Z80, 8080, or 8086 processor running CP/M, CP/M-86, MS-DOS, or PC-DOS operating systems. Main storage: 64K bytes for 8-bit machines, 128K bytes for 16-bit machines. Minimum of two diskette drives required; 10M-byte Winchester disk recommended. Source language: compiled dBASE II.

Capabilities Champion accounting software is written in dBASE II and comes with a special runtime version of dBASE II. The five modules include general ledger and financial statements, accounts payable, inventory, payroll, and accounts receivable. Champion automatically updates all journals, ledgers, and files. No postentry batch processing is done. Each module can run as a standalone unit or can be combined with any of the other modules in an integrated package. Auto-Help windows are provided throughout the system and explanations of system functions appear on the video screen. The windows also refer the user to the chapter, section, and page number in the manual appropriate to the function in process. All accounting transactions can be traced through audit trails. All changes, corrections, and deletions are kept on file and are available for review. The open months feature allows the entering of activity for a current month without closing the prior month. The system is designed as a single-user system.

Description In general ledger transactions entered in the accounts receivable, accounts payable, inventory, and payroll modules are posted to general ledger as they are entered. Cost accounting is accommodated by department or job. Champion maintains separate cash disbursement journals for each checking account and separate income accounts. A trial balance report can also be printed. The accounts receivable module provides nine customer discount levels that interact with seven inventory discount levels. Point-of-sale invoicing provides a running cash drawer balance, prints and invoices at the time of sale, and tracks retail business by transaction. As many as 62 sales tax codes can be entered into the system. Among printouts is a sales analysis report by salesperson, department, territory, and inventory item. Under the accounts payable module, checks can be printed either for individual invoices, vendors, or by selected dates. Partial payments are also allowed by the system. A cash requirements report is among the printouts available. Reorder, minimum-level, and stock-full

points can be set or changed in the Inventory module. Records can be maintained by product group, subgroup, or department. Reorder and back-order items reports are available. The payroll module has state withholding files for all 50 states, the District of Columbia, and Puerto Rico. The module prepares a prepayment edit list of payroll checks for final verification before printing and worksheets for Forms 941 and 940. The system also prints W-2 statements.

The password security system for the accounting package is designed for multiple levels of security. A password can be created for each employee accessing the system, and each employee can be restricted to certain levels of access.

Champion Software Corporation also offers FREEWAY, a custom report generator and spreadsheet interface. FREEWAY can be used to transfer files directly to spreadsheets such as the Lotus 1-2-3 and Symphony and the Ashton-Tate Framework. Data can be pulled from the accounting files and manipulated by the custom-report generator. This program also features Boolean operators.

GREAT PLAINS SOFTWARE

1701 SW 38th St
 Fargo ND 58103

(701) 281-0550

► Hardisk Accounting Series

An integrated accounting package

Price \$695 per module

Environment Computers: Apple IIe, III, Macintosh, NCR Decision Mate V, Wang PC TI Professional, any system fully compatible with IBM. Main storage: 128K or 256K bytes, depending on machine; 5M-byte Winchester disk required. Source language: UCSD Pascal.

Capabilities The following capacities hold true regardless of the size of the hard disk: general ledger, 999 profit centers, 99 cross accounts; accounts payable, 3,000 vendors; accounts receivable, 3,000 accounts; inventory, 6,000 part numbers; payroll, 250 employees with 20 deductions, 20 pay types, eight pay periods that can be run simultaneously.

Description The Hardisk Accounting Series is an integrated set of accounting modules designed to reside on a Winchester-type fixed disk. All modules can be purchased separately, run independently, and can be integrated at a future date. All modules process in the batch mode to verify data entry, maintain audit trails, and have multilevel password protection. Most reports are flexible though they cannot be custom designed without an optional program from Great Plains. The general ledger module supports both multiple profit center reports and consolidated reports. Provision is also made for separate, independent company files to reside on the same disk. Performance analysis reports can include comparisons with budget, last-year, and year-to-date figures. Under the accounts payable module, vendor history is kept for the entire year along with suggested

distribution expense reports. The accounts receivable module tracks the number of times a customer has been assessed finance charges and lists commissions earned by salesmen and then automatically transfers those commissions to the payroll module. Both open-item and balance-forward accounting are supported. The payroll module covers 50 states. Reports include W-2, W-2P, W-3, W-3P quarterly SUTA by state, and 941 preparation. The inventory module supports FIFO, LIFO, and weighted-average cost methods of inventory valuation. Turnover reports as well as reports suggesting items in FIFO or LIFO order to assist proper rotation of inventory are provided by the system. The job costing module allows three types of billing—fixed price, cost plus, or cost plus with maximum billing. Profits can be calculated as a percentage or flat rate for each phase of a job. Overhead can be calculated on the basis of labor dollars, material dollars, or a flat amount.

Rapid Transfer, available for single-user systems only, is an optional package provided by Great Plains for \$295. It transfers data for manipulation or customized reports to the Software Arts VisiCalc, Lotus 1-2-3, or Microsoft MultiPlan. Multiuser systems are available from Great Plains for \$795. Also offered is Report Maker, a custom-report generator for multiuser systems only. Priced at \$295, it does not include any data transfer features. All modules, single- and multiuser, come with tutorials and sample data. Great Plains maintains a product support staff to handle user inquiries.

GROUNDSTAR SOFTWARE

10350 S DeAnza Blvd
 Suite 2D
 Cupertino CA 95014

(408) 462-5250

► General Accounting

An integrated accounting package for any OASIS-based microcomputer

Price \$4,000 purchase

Environment Computers: OASIS-based computers. Main storage: configuration dependent. Source language: OASIS BASIC.

Capabilities Fully integrates to journals from the accounts receivable, accounts payable, and payroll systems. Processes financial systems. Allows batch-posting to general journal. Produces user-defined reports for accounts payable, accounts receivable, and payroll.

Description General Accounting is a fully integrated system that generates reports from several modules in order to improve accounting procedures. The program produces financial statements and interfaces with accounts receivable, accounts payable, and payroll. Customer statements, ledgers, and employee payroll reports are user specified.



HAI SOFTWARE

3400-D W MacArthur Blvd
Santa Ana CA 92704

(714) 641-2844

► HAI*LINE

An integrated accounting package

Price \$3,615, 7-module package

Environment Computers: those running CP/M or MS-DOS operating systems. Main storage: 64K bytes for CP/M, 128K bytes for MS-DOS. Two diskettes required; 10M-byte Winchester disk recommended. Source language: HAI BASIC.

Capabilities HAI*LINE is a modular, integrated accounting package for general business applications. The packages can be purchased separately, run as standalone systems, and then integrated at a later date. An audit trail is maintained throughout the system. File capacity depends on the storage space available.

Description The HAI*LINE series consists of the following modules: general ledger, accounts receivable, accounts payable, inventory, sales order processing, sales invoicing, and sales analysis. The general ledger module maintains multiple companies with multiple departments on its files. Accounts can be listed separately or consolidated for reporting with subheadings and sub-totals. Financial reporting provides comparisons with previous-year and budget amounts. Comparisons with the previous year can be generated and maintained automatically. The accounts receivable module defaults to an open-item system, holding all invoices within the system until paid. Individual accounts, however, can be set up to balance forward. Partial payment, on-account payments, and settlement discounts are also supported. Discount terms are held for each vendor and taken from invoices selected for payment. A cash requirements report can be printed to show amounts due aged according to date or in detail to show individual invoices to be paid by vendor in a specific format. Each inventory item can be classified as one of 99 groups or departments. Any data entry made for quantities can contain up to four decimal places. The inventory module provides recall of information showing quantities with valuation, selling price, and tax details. The usage report shows the quantity of each item sold or issued and computes a gross profit. Under the sales order processing module, the Inventory module is automatically updated to reflect the current on-hand position with outstanding orders. Allowance is made for on-inventory items and messages on the order forms. Backorders generated automatically during order entry can be overridden. A picking list is available for physical preparation of order. The sales invoicing module provides a standard invoice format that the user may redefine to match an existing form. Discounts can be applied on the invoice line or invoice total. Miscellaneous charges, nonstocked items, freight charges, and messages can be printed on the invoice. With the sales analysis module, the user designs the analysis. Up to four files can be maintained. Formats available to print the data are this period/year to date,

comparison with last year, and comparison with target. HAI SOFTWARE offers evaluation kits, which include complete manuals and programs.

IBM

1133 Westchester Ave
White Plains NY 10604

(914) 696-1900

► Business Management Series

An integrated accounting package

Price \$4,170, 6-module package

Environment Computers: those running PC-DOS operating system. Main storage: 320K bytes; 10M-byte Winchester disk required.

Capabilities The Business Management Series is a set of modular interactive accounting application programs. The modules may be purchased separately and run in standalone mode or integrated into a total accounting package. Audit trails are built into the system and journals are sequentially numbered. The system integrates with the IBM Personal Decision Series software packages.

Description The series consists of the following modules: general ledger, accounts receivable, accounts payable, payroll, order entry and invoicing, and inventory. The general ledger module supports multiple companies as well as multiple departments. Financial reports can be printed out independently for separate departments or companies or consolidated for companywide report. Previous-year history as well as budget figures and encumbrance is maintained by the system for comparison. Journals can be posted to the current fiscal period at any time; no prior-period closing is needed. Options allow tailoring of journal formats. Up to four footnotes per page can appear on financial statements and an additional 95 footnotes can be designed for printouts. The accounts receivable module supports open-item and balance-forward accounting, which can be selected by customer. Cash and COD transactions can be entered. Partial payments and overpayment of invoices are also allowed. Under the accounts payable module, all items are handled on an accrual basis. Cash discounts are provided either by percent or by amount of the invoice line or in totals. Reports include vendor analysis, cash requirements, and vendor name and address list. An aged payables report is provided with selective aging periods in summary or detail formats. The payroll module allows weekly, biweekly, semimonthly, and monthly pay frequencies. Shift differentials can be calculated as a percentage of employees' hourly rates or as a fixed dollar amount per hour. The package supports federal, state, and local deductions and isolates vacation, sick-pay, and fringe benefits. Reports include W-2, state and local tax register, deductions and benefits register, and workers' compensation worksheet. The order entry and invoicing module creates open orders and invoices from customer orders. The system supports postshipment billing, over-the-counter billing at the time of purchase,

and prebilling with inventory allocation. Cash, charge, and COD orders are accepted and 99 warehouse locations are provided for. The same number of locations are provided for under the inventory module. Valuation methods are either average-cost or last-cost amount. Reorder quantities are suggested by the system and are based on minimum balance, maximum balance, pack size, and vendor minimum order.

INTERNATIONAL MICRO SYSTEMS

6445 Metcalf
Shawnee Mission KS 66202

(913) 677-1137

► IMS Financial System

An integrated accounting package

Price \$5,050, 8-module package

Environment Computers: those running CP/M-80, CP/M-86, MP/M-86, MS-DOS, or PC-DOS operating systems. Main storage: 64K bytes for CP/M-80, 128K bytes for CP/M-86, MP/M-86, MS-DOS, PC-DOS. 10M-byte Winchester disk required. Source language: CBASIC.

Capabilities The IMS Financial System is a series of eight modules that can be run as an integrated accounting package or purchased separately and run as a stand-alone system. File capacity on the system is dependent on disk storage available. Multiuser versions feature password control, file lockout, and US/European date form.

Description The Financial System consists of the following modules: general ledger, accounts receivable, accounts payable, payroll, inventory, job accounting, order entry with invoicing, and fixed asset accounting. Under the general ledger II system, postings can be entered daily. A control register is printed for all postings. Batch totals are printed on the register at the end of each posting run. Reports include trial balance, balance sheet, profit-and-loss statement, general ledger, chart-of-accounts with budgeting, operating budget, comparative operations, profit-and-loss variance, and statement of changes in financial position. The Financial System supports open-item and balance-forward accounts receivable, but a separate module must be purchased for each type of accounting. The accounts receivable module allows daily, weekly, or monthly transaction posting, with a printed transactions register. The customer's account balance is updated after statements are issued. This module also recaps sales by account data and project future-cash income. The accounts payable module is an open voucher system that allows payment by individual voucher or partial voucher and then prints one check per vendor along with a check register. The module also prints a list of itemized cash requirements for the next three months and a list of vendors, addresses, and total payments to each vendor so far for the fiscal year. The payroll module processes all tax deductions and up to eight user-defined deductions for four states. The payroll register can be printed out by class,

department, or location. The module also prints W-2 and 941 forms, a monthly recap of deductions, sick and vacation hours, and payroll subtotals. The inventory module includes the purchase orders module. The purchase orders are created by filling out a form on the screen. The system then types the order and checks the status of outstanding orders. Inventory levels are automatically adjusted and average cost is figured. The job accounting module tracks income and expenses by individual project. Information can be entered by the operator or read from data contained in accounts payable, accounts receivable, and payroll modules. The system shows profit and losses for each project and compares actual expenditures against a budget. The order entry and invoicing module provides for three preset pricing levels, any of which can be overridden by the user. The system prints picking tickets, packing lists, and invoices including any discounts, sales tax, and freight charges. The fixed assets module calculates the impact on tax of various depreciation methods, including straight line, double-declining balance, sum-of-years digits, ACRS, or a depreciation schedule the user may define. The module calculates monthly depreciation for the life of the asset and updates the general ledger each month. The system also provides for multiple location of assets. IMS also offers a toll-free help line.

INTRO-LOGIC

24700 Northwestern Hwy
Southfield MI 48075

(313) 352-2740

► Financial Software Series

An integrated accounting package

Price \$3,000, 4-module package

Environment Computers: those running under CP/M or MP/M operating systems. Main storage: 64K bytes; 5M-byte Winchester disk recommended. Source language: CBASIC II.

Capabilities System file size depends on the storage capacity of the computer system. The following capacities are based on single-module installations with 1M byte of diskette storage: general ledger, 500 accounts and 7,500 transactions per month; accounts payable, 750 vendors with 5,500 vouchers; accounts receivable, 750 to 1,250 accounts, depending on detail items per record; payroll, 1,000 employees.

Description The Financial Systems Series consists of four modules: general ledger, accounts payable, accounts receivable, and payroll. These packages, which provide for an audit trail, can be run as an integrated system or as standalone systems. Purchased separately, they sell for \$800 each. The accounts receivable module is sold in two versions—open-item and balance-forward—which can be run concurrently on the same system but must be purchased separately. A report writer is not included and all printouts are standardized. Under the payroll module, the user can define eight deductions and



standard federal deductions are acceptable. The package prints out most W-2 and 941-A summary reports. The general ledger module supports multiple locations, departments, and divisions and will print out separate as well as consolidated reports for those separate entities.

MCBA

2441 Honolulu Ave
Montrose CA 91020

(818) 957-2900

► Accounting System

An integrated accounting package

Price Vendor declined to provide

Environment: Computers: those running the XENIX, UNIX, PC-DOS, RM/COS, and MS-DOS operating systems. Main storage: 1,100K bytes; 10M-byte Winchester disk required, 20M bytes recommended. Source language: RM/COBOL.

Capabilities MCBA's accounting package is a fully integrated, multiuser accounting system for small- to medium-sized businesses. Among the system features is a print spooling function. Any report generated by the system can be spooled to a disk file. The user may later review what reports are currently stored on disk and print selected reports any number of times. The reports may begin at any page number within the report. Multi-level security is provided, allowing up to 200 passwords with access restrictions at the file level by company. Up to eight companies can use the system at any time.

Description The series consists of the following eight modules: general ledger, accounts receivable, accounts payable, payroll, job costing, inventory management, purchase order and receiving, and fixed assets and depreciation. Modules can be purchased separately and run together or in standalone mode. The general ledger module provides up to 13 undefined accounting periods. Profit centers, cost centers, divisions, or departments can be delineated. Budgets can be entered for each accounting period for each account. Prior-year comparative figures can be entered or automatically calculated at year end. A warning message is given when a transaction date falls outside the current period. Source code entered for each transaction designating its origins. A running total of debits and credits is continuously displayed for transactions that have not yet been posted to the year-to-date file. Under the accounts receivable module, the customer master file includes a user-defined customer type, balance method, credit limit, terms code, and tax code. Discount percentages can be specified for 28 product categories for each customer. Interactive entry and editing of sales, credit or debit memos, and finance charges are supported. Finance charges can be automatically calculated or manually entered. Reports include sales analysis, reports by customer, customer type, salesman, territory, and sectional center. Under the accounts payable module, interactive entry, editing, and posting of new payable vouchers are fully supported. Each invoice, specifying exact purchased-

item numbers and job numbers for later interface to job costing can be distributed to multiple expense and variance accounts. Partial payments can be made manually or by computer check. Payment preparation for check printing can be done by deferral, selection, or a combination of both for one payable account at a time or for all accounts. Checks can be printed after payment preparation; a stub-over-check format is used. All computer, prepaid, manual, and void checks are kept on the check reconciliation file. Federal 1099 forms can be printed on standard preprinted forms for user-defined groups of vendors. In the payroll module, interactive entry and editing of federal, state, and city withholding tax tables, including earned income credit, are provided. Up to five states and seven cities can be supported simultaneously. Multiple attendance transactions are consolidated into a single paycheck so that data may be entered from time cards. The package prints quarterly 941A forms by state and W-2 forms; 1099 forms can be printed and grouped by a user-defined code. Reports include overtime and sick pay, job class/equal opportunity, state taxable wages, and city withholding tax. The job costing modules provides cost reporting and variance analysis. Cost tables exist for burden rate, job type, job status code, cost type, work center, department, labor grade, raw material, work in process, and finished goods/cost of goods sold. Multiple formats for job costing transactions are available to accommodate the various elements that make up the costs in a job. Operation transactions record labor costs, both planned and actual, capturing overhead as well; materials transactions capture planned and actual material costs. Cost analysis reports can be run at any time in the life of a job to show actual, planned, and variance costs to date. The Material Cost Analysis by Department and Work Center Report can be printed for selected departments and work centers and shows the total materials variance amount and percent by cost type, along with a breakdown by price, yield, and quantity. The Labor Cost Analysis by Job Report can optionally be printed with labor details on job notes and shows total labor variance amounts and percentages. If labor detail is selected, a further breakdown of rate variance, performance variance, and labor hours variance is printed. The inventory module handles multiple warehouses and replenishes branch warehouses from a central warehouse. In addition to transfers between warehouse locations, issues and receipts are handled as transactions. Each inventory item can be assigned a cycle count code, and a worksheet can be printed for each code periodically. The quantity on-hand, quantity allocated, quantity on-order, and the reorder level are shown for each location for a selected item. If no location is entered, the sum for all locations is shown. Based on average-cost times usage, the ABC Analysis Report ranks all inventory items as A, B, or C according to user-defined percentages. The Usage Exceptions Report shows all items whose actual usage varies from forecasted usage by a specified percentage, enabling management to evaluate which items' forecasting and ordering parameters should be changed. Under the purchase order and receiving module, a purchase order

can be entered and kept on file indefinitely. Any number of line items can be added to each purchase order, and blanket purchase orders can be set up. Cash required for payment of vendor invoices can be projected from outstanding purchase orders. The fixed assets and depreciation module allows separate adjustment and selection of first-year bonus depreciation and expense amounts for assets capitalized in the current year. Assets can be automatically depreciated through the use of one method for the financial books and another for tax reporting. Depreciation methods include straight-line; 125, 150, and 200 percent declining balance; double-declining balance to straight-line; sum-of-years digits; units-of-production method; ACRS; and straight-line with half-year convention. A full projected schedule of any level loan is obtained by entering the principal amount payment frequency, interest rate, and term in years.

aged with customer updates on back-ordered items and shipping information. The payroll module accommodates 23 concurrent active unions. Users can also access detailed or summary workers' compensation report as well as contractors' certified payroll reports by job. Up to eight individual deductions can be used for each payroll check. The package provides for quarter-to-date and year-to-date reports by employee and the 941 quarterly report and W-2 at year end. The job costing module sets up a job ledger to accumulate incomes, materials, and labor costs against a particular job, allowing for up to 364 jobs at any one time. The package accumulates all incomes and costs through the general ledger journals. The general ledger module provides information by account, whereas job costing provides it by job. Direct and indirect overhead allocated to jobs by way of journal entries.

MCC SOFTWARE

5785 Merle Hay Rd
PO Box 188
Johnston IA 50131

(515) 276-3387

► Accounting Software Series

An integrated accounting system

Price \$7,265, 7-module system

Environment Computers: those running CP/M operating system. Main storage: 64K bytes. Source language: FORTRAN IV.

Capabilities System capacity varies with the type of computer used and the storage available. The packages run on disk but not multiuser systems.

Description All reports are printed on standard 8-1/2-x-11-inch paper. Modules consist of general ledger, accounts receivable, accounts payable, payroll with labor distribution, inventory management with sales order processing, purchase order management, and job costing. Modules can be purchased separately, run in stand-alone mode, and later integrated into a master accounting system. Under the general ledger module, automatic proofing of valid accounts and journals ensures data integrity. Financial reports are somewhat flexible in design, and there is a user interface online. User-defined title and footnotes. The accounts payable module is only available as an accrual method package. Reports include cash requirements and outstanding checks. The accounts receivable module works with an open-item or balance-forward accounting system to automatically create accrual, sales, and cash receipt journals for posting to the general ledger module. Finance charges are calculated and discounts are allowed. It allows flexibility in formatting invoices, statements, and sales analysis while automatically distributing sales journal information when used with the general ledger module. The inventory management module provides perpetual maintenance of inventory with on-hand, reserved, and available quantities. Usage records are maintained, and reports include Economic Order Quantity. Backorders are man-

M & D SYSTEMS

PO Box 108
3885 N Buffalo Rd
Orchard Park NY 14127

(716) 662-6611

► Business Software Package

An integrated accounting software package

Price \$6,900, 9-module package

Environment Computers: those running PC-DOS, MS-DOS, CP/M, CP/M-86, MP/M, MP/M-86, and XENIX. Main storage: 256K bytes; 10M-byte Winchester disk required; 20M bytes recommended. Source language: RM/COBOL.

Capabilities The file size of the system is limited largely by disk storage space. Financial reports in the system can be user defined. Profit-and-loss (P & L) statements and balance sheet reports in the general ledger module can be printed out by department or division as well as consolidated for companywide reports. The accounts receivable module supports the open-item and balance-forward methods. These two methods can be mixed within the system. Cash received from other than a customer account may be entered into the system without affecting the accounts receivable module. More than 80 separate pieces of data per product record can be recorded, 30 of which the user can select when creating the product record. The accounts payable module calculates due dates and discounts available through vendor information.

Description This is an integrated 9-module accounting package containing general ledger, accounts receivable, accounts payable, payroll, inventory, order entry/billing, sales report writer, purchase order processing and sales lead tracker. The system supports single- and multiuser computers along with networking. The modules can be purchased separately and run in stand-alone mode. Each module has password protection for data security. With the general ledger module, P & L statements and balance sheet reports can be printed in detail for audit purposes or in summary for management pur-



poses. Accounts receivable information includes analysis of purchase and payment history, large debits and credits, and credit rating information. The mailing labels file creates ASCII files that can be used by a data base management program or word processor. The accounts payable module gives year-to-date summaries of discounts earned and lost as well as project cash requirements. The inventory module classifies items into four stages—on hand, on order, pegged, and available. For each stage, reports list minimum and maximum amount quantities and time supply available based on average use over the last six months.

Also available from M & D is a demonstration package for \$145. The price can be applied to the system purchase price. Support Plus is an optional annual software maintenance program offered. Included in the Business Software Package is upgradability of software from one supported computer or operating system to another, a user assistance telephone line, and modem support to facilitate updating and troubleshooting.

MICRO BUSINESS APPLICATIONS

12281 Micollet Aves
Burnsville MN 55337

(612) 894-3470

► Accounting System Package

An integrated accounting package

Price \$5,355, 9-module package

Environment Computers: those running under CP/M-80, CP/M-86, PC-DOS, MS-DOS, Concurrent DOS, TurboDOS, MP/M II, or Concurrent CP/M-86. Main storage: 64K bytes for 8-bit computers, 128K bytes for 16-bit computers, and 256K bytes for computers running under Concurrent DOS. Dual-diskette drives required; 10M-byte Winchester disk is recommended. Printer: 132-column capability required. Source language: MS COBOL.

Capabilities File capacity is limited only by the amount of disk storage available. The accounting system consists of nine modules: general ledger with financial report writer, accounts receivable with invoicing, accounts payable with check writing, multistate/local payroll with check writing, sales order entry with sales commissions, inventory with invoicing, purchase order/requisitions for inventory, job cost, and fixed asset accounting. Except for accounts payable, any module can be purchased separately and run in standalone mode. The general ledger module can accommodate subsidiary ledgers, and posting from accounts payable and receivable, payroll, and inventory is automatic. Accounting periods in the general ledger module can be processed concurrently. The accounts receivable module contains an integrated Invoicing module. Statements can be produced at any time. The payroll module supports eight earning categories, nine deduction categories, automatic preparation of W-2 statements, 941 and 941A summary information, Employer Tax Liability Reports, and SUI and FUTA reports. The sales order entry module calcu-

lates nine categories of commissions and gives reports on open and closed orders. The inventory module supports a 15-digit alphanumeric character part number and provides an audit trail. The purchase order module interfaces with the accounts payable module to provide vendor name and address information. This system issues automatic and manual purchase orders and generates best order-quantity amounts, lead-time requirements, outstanding-requisition reports, and purchase order commitment reports. The job cost module breaks jobs into phases. Cost categories can be defined in units or dollars and as fixed fee, percentage of costs, fee plus percentage of costs, or time and material. The fixed asset module contains 11 methods of depreciation, including ACRS and ACRS alternate methods.

Description The general ledger module contains a report writer for flexibility in designing financial reports. These reports can be consolidated or broken into departmental statements. Under the accounts receivable module, open-item and balance-forward accounting are accepted and can be mixed. The purchase order module produces management reports detailing economic order quantity and analyzing economic versus existing reorder points. The job cost module monitors the completion status of each job phase, current costs, projected costs, and profitability.

DWP and PhD are optional programs offered by MBA. DWP interfaces with the Ashton-Tate dBase II, giving that program access to master and detail data base files of the accounting system programs. The modules are \$100 each and must be purchased separately for each module. They are available for general ledger, accounts receivable, accounts payable, payroll, and inventory modules. DWP is written in MS COBOL.

PhD is a relational data base management system that integrates with the accounting applications or functions as a standalone data base. Among its features is a more flexible report writer than the one provided with the general ledger package. This report writer allows the user to create custom reports as needed and save the formats for later use. A math capability is included, along with eight indexes per data file and three sorting levels per index, with ascending or descending sorts. PhD produces ASCII files for two-way transfer of data between it and other productivity tools. These include the MicroPro Wordstar, Sorcim/IUS Micro Software SuperCalc, Lotus 1-2-3 and Symphony, and Ashton-Tate dBase II. PhD is written in Assembler language and costs \$495. MBA provides pre- and postsale support by way of toll-free telephone line.

MICRO DATA

5705 Lacey Blvd
Suite 104
Olympia WA 98503

(206) 459-3300

► Integrated Accounting Software Series

An integrated accounting package

Price \$2,000, 4-module package

Environment Computers: those running CP/M-80 or CP/M-86 operating systems. Main storage: 48K bytes. 5M-byte Winchester disk recommended. Source language: CBASIC.

Capabilities This single-user system is an interactive, single-user accounting system designed for general business applications. All posting in the integrated package form is done automatically. The general ledger module handles 9,999 accounts (the number of transactions per month depending on disk storage size); the accounts payable module, 9,999 user-defined payee numbers, with unlimited expense distribution; and the accounts receivable module, 9,999 customer accounts and 999 user-defined service codes that are used to identify specific charges and payments.

Description This four module set consists of general ledger, accounts receivable, accounts payable, and payroll. Modules can be purchased separately and run in standalone mode. The general ledger module is a double-entry bookkeeping system that produces a detailed report of all transactions. Automatic month-end and year-end roll-forward features are provided for. The chart of accounts may be user defined. Operating and income statements can be broken down into individual reports or consolidated into companywide statements. The accounts receivable module is a balance-forward system that produces daily invoices and customer statements on a monthly basis and maintains detailed aging and delinquency reports on all customers. Service codes and customer numbers can be user defined and finance charges are calculated automatically. The accounts payable module measures cost distribution to individual jobs and cash flow requirements. Automatic calculation of terms and purchase discounts is supported as is automatic printing of payables checks. Pay periods can be user defined and provide cash forecasting. The payroll system is designed to calculate employee earnings and deductions and to meet government requirements for hourly, salaried, and commissioned employees. The system accepts six payroll types and provides labor expense distribution reports for employees working in multijob situations at different pay rates. All local, state, and federal taxes are automatically calculated. State and federal unemployment information reports are also provided. Departmental summary reports are given and W-2 forms are printed at year end.

storage: CP/M, 64K bytes; MP/M-II, 48K bytes per user plus 30K-byte partition; CP/M-86, 256K bytes; MP/M-86, 96K bytes per user plus one additional 80K-byte partition. 10M-byte Winchester disk required. Source language: PL/I-80 on 8-bit versions, PL/I-86 on 16-bit versions.

Capabilities Income is a multiuser integrated accounting package capable of networking. The packages in the series can be integrated or run in standalone mode. The system consists of the following modules: general ledger, accounts receivable, accounts payable, order entry, purchasing, and inventory.

Description The general ledger supports up to 100 separate companies with up to 32,000 accounts and 100 departments per company. Reports include a three-column balance sheet, income statement, and trial balance. The accounts receivable module supports balance-forward and open-item accounting with up to 1,000 user-definable sales distribution codes. The module applies credit memos, automatically calculates service charges, and bills recurring charges each month. The accounts payable module automatically pays expenses with up to 1,000 distribution codes and accepts discounts when applicable. The system automatically processes recurring charges. Reports include cash requirements, payment preview, check register, and mailing labels. The inventory module provides average, standard, LIFO, and FIFO methods of valuation with up to 20 price levels per item. Reports include reorder, valuation, activity, physical inventory worksheet, standard costing variation, spares usage, and ABC analysis and prints price list and bin labels. The order entry module records and controls customer orders. Operators are notified of item availability as order are entered. Partially filled orders can be released or held until all parts are available. Back-ordered items tracked. Sales commissions are automatically calculated. The system prints order acknowledgements, packing lists, and invoices. The purchase order module creates orders and tracks receipts providing information on status of any open order. Orders are listed by vendor or item. Vendor performance analysis report compares expected and actual receipt dates and projects requirements. Invoices received can be compared to actual goods received. All modules integrate with Miracle Computing's line of manufacturing software.

MIRACLE COMPUTING

313 Clayton Ct
Lawrence KS 66044

(913) 843-5863

► Income

An integrated accounting package

Price \$3,600, 6-module package (\$600 per module)

Environment Computers: those based on the 8080 or 8086 processor, running under CP/M, CP/M-86, MP/M, MP/M-86, and MS-DOS operating systems. Main

NEAL NELSON & ASSOCIATES

185 N Wabash
Chicago IL 60601

(312) 332-3242

► Accounting Software Series

An integrated accounting package

Price \$32,000, 10-module package

Environment Computers: those running UNIX operating system and derivatives. Main storage: 512K bytes; 20M-byte Winchester disk required, 40M bytes recommended. Source language: C.



Capabilities The Integrated Accounting system offers a multiuser design that allows concurrent use of any program in the series. Multicompany and multidivision support is built into all programs, and operators can be assigned to a predefined company or division or allowed the option to specify the company or division. Supplemental security is provided for and programs contain checks for error conditions and record them in an error log file.

Description The system includes accounts payable, billing-accounts receivable, general ledger, inventory control, job costing, order processing, purchase order accounting, sales analysis, cost estimating, and payroll modules. Standard general ledger reports include balance sheets, profit-and-loss statements, detail trial balance, summary trial balance, journals, schedules, budget comparisons, and cash flow statements. Accounting periods are user definable and reports can be printed for any accounting period. Multicompany and multidivision support allows printing of separate or consolidated statements. The accounts payable module supports full and partial payments, debit and credit memos, adjustments, allowances and refunds, and manual and separate checks. The system prints 1099 forms for vendors. The billing-accounts receivable module prepares invoices, debit and credit memos, detail and summary aged trial balances, and daily and monthly journals and registers. Full and partial payments, adjustments, and refunds as well as cash and early payment discounts are supported. Automatic calculation of monthly finance charges is optional. Standard charges are for automatic billing events. The inventory control module maintains stock levels and reorder points, and provides usage analysis and inventory valuation. It supports multiple units of measure per inventory item with automatic conversion as required. The system maintains perpetual on-hand and on-order balances. The payroll module provides for either salaried or hourly personnel. Payroll checks, tax deposit checks, and deduction deposit checks printed automatically. Multiple checks can be printed for employee in payroll period. Handwritten checks are accepted. The system calculates taxes and standard deductions and provides separate deduction registers for each type of deduction. Tax reports are also printed. The job costing module provides cost analysis by job and by phase, detail and summary reports, and online inquiry. Estimated and actual information is entered by operation. Manual entry, adjustments, job cost history, and revisions of estimates can be maintained by operation. Analysis reports recap job cost by job, operation, product, customer, or employee. The cost estimating module prompts the operator for information and calculate estimated costs by operation. On receipt of customer order, the order can be compared to the estimate and the estimate can be revised as necessary. The detail from the estimate becomes the starting point of estimate-versus-actual comparison in the job costing system. Reports include analysis of open estimates by customer, salesperson, and product type and comparison of estimates and orders by customer, salesperson, and product type. The order processing module supports multiple shipments,

partial shipments, and back orders. It provides packing lists, shipping labels, order and shipment registers, backorder processing, open-order analysis, and online inquiries. The system provides for returns, allowances, adjustments, and items damaged during shipment. Special forms, such as manifests and bills of lading can be produced and programs are available for spread-order and blanket-order entry. The sales analysis module allows reports to be prepared in detail or summary, based on orders, shipments, invoices, or cash receipts. Reports are available by part number, product category, customer, customer type, state, region, zip code, or salesperson. The purchase order accounting module provides for multiple receipts, partial receipts, back orders, returns, allowances, adjustments, and items damaged during shipment. Analysis reports for open purchase orders are available by product, vendor, or buyer.

SMC SOFTWARE SYSTEMS

PO Box 0600
Basking Ridge NJ 07920

(201) 647-7000

► Thoroughbred Accounting Software Series

An integrated accounting package

Price \$3,965, 7-module package

Environment Computers: those running PC-DOS, MS-DOS, UNIX, XENIX, and Thoroughbred operating systems. Main storage: 128K bytes; 10M-byte Winchester disk recommended. Source language: Business BASIC.

Capabilities The Accounting Software Series from SMC is a fully integrated general business accounting package. It is a multiuser, multicompany package with networking capabilities. The package consists of seven modules: general ledger, accounts receivable, accounts payable, payroll, purchase order, order processing and fixed assets. All modules may be purchased separately and run standalone, then later integrated. All modules or integrated systems may be used as either single- or multi-user systems.

Description The general ledger module accompanies 999,999 account numbers on the chart of accounts and 26 ledger files. These files can be treated as independent companies or as separate divisions or departments within the same company. Reports may be run independently on these files or consolidated into a systemwide report. Multiple companies with multiple divisions or departments can occupy the system simultaneously. Financial statements are user definable. Income statements are generated with either quarter-to-date or year-to-date comparisons. Transactions for the month can be purged or retained for the entire year. Under the accounts receivable module, the customer master file maintains up to 999,999 customers. The system handles sales, sales tax, freight, cash receipts, discounts given, credits, and miscellaneous transactions. Multistate tax tables automatically apply appropriate sales tax to in-

voices. Nine categories of nontaxable sales are supported. The user selects percentage or dollar amount discounts. Processing can be balance forward or open item. Sales analysis is done by customer on a month-to-date or year-to-date basis. The system automatically generates a sales commission report. The accounts payable module maintains up to 999,999 vendor accounts on file. Prepaid invoices are supported along with time payments and partial payments. Discounts are entered as percentage amounts or flat dollar amounts on invoices. The user can also enter nonvendor or one-time expenses for payment distribution. This module also projects cash requirements. Automatic cash disbursement report for designated time periods. Reporting can be done for 26 profit centers. The payroll module handles up to 999,999 employees stored by employee number or alphabetically by name. Multicompany and departmental pay categories are provided for. Withholding schedules include federal, state, and local taxes, FICA, FUTA, SUTA, unemployment, and workmen's compensation. The system can report earned income credits and automatically generates W-2 forms and 941 information. The order processing module accommodates 999,999 inventory items. Valuation methods include market, weighted, average, and LIFO/FIFO. Automatic markup pricing is available. Six levels of multipricing by customer, item, and category order cancellation, order changes, partial shipments, returned goods, and automatic or manual back-order processing. Inventory and noninventory item ordering is provided for in the purchase order module. Shipping units are automatically converted to stocking units, and multipage purchase order sheets are accommodated. The system provides for reports by asset value as well as depreciation methods and intercompany transfer of assets. Added cost reports are produced. The Thoroughbred system stores all files in an ASCII format, allowing the transfer of accounting data to productivity software programs such as the Lotus 1-2-3, Sorcim/IUS Micro Software SuperCalc, and Microsoft MultiPlan. All programs in the series provide audit trails.

SOFTECH INFORMATION SYSTEMS INC

20 Sunnyside Ave
Mill Valley CA 94941

(415) 381-1011

► AccountMate II Software Series

An integrated accounting package

Price \$1,375, 5 modules

Environment Computers: those running PC-DOS, MS-DOS, or CP/M operating systems. Main storage: 64K bytes under CP/M, 192K bytes under PC-DOS or MS-DOS. 10M-byte Winchester disk recommended. Source language: dBase II and III.

Capabilities All packages are menu driven and fully integrated. Modules can be purchased separately and run in standalone mode or as a system. All packages written in the Ashton-Tate dBase II and III are available

in a dBase version, with source code provided for user modifications or as a compiled version that will run without dBase.

Description The AccountMate II series consists of general ledger, accounts receivable/billing invoice, accounts payable, sales order, and purchase order packages. All packages have a dual-level password protection system and will maintain ledgers for 10 companies, each company with up to 99 departments each. Department statements and budgets can be consolidated with an entire company or processed separately. Online help screens are available. System capacity is limited by disk storage of up to 65,000 items: general ledger, 65,000 accounts; sales order, 65,000 customer and inventory files; billing invoice and accounts receivable, 65,000 customers and inventory files; purchase order, 65,000 vendor accounts; accounts payable, 65,000 vendor files. Under the general ledger package, accounts can be audited and printed before actually posted. Users can view or add accounts during the posting process. The sales order package produces orders, and maintains inventory and customer files and prints customer mailing labels. Reports include detailed or summary printouts of orders, items shipped and back ordered, and inventory and price lists. When integrated with the sales order package, the accounts receivable package recalls sales order information to form invoices when orders are shipped. The module also maintains inventory and customer records. Payments are recorded as open-item or balance-forward, and open credit can be applied to an account. The accounts payable package handles open debit and prepayments. Discount analysis reminds the user when payment discount period ends. Softech offers telephone assistance for users and a demonstration evaluation package containing all file modules for \$25.

THE SOFTWARE EXPRESS

2925 Briarpark
Houston TX 77042

(713) 270-5218

► Financial Series Accounting Software

An integrated accounting package

Price \$3,000, 5-module package (\$600 per module)

Environment Computers: those running UNIX, XENIX, Pick, BSD 4.2, RSTS, and RSX II operating systems. Main storage: 256K bytes; 20M-byte Winchester disk required. Source language: C.

Capabilities A fully integrated accounting package with interactive posting from module to module. File capacity on the system is limited only by available disk storage. Audit trails are maintained throughout the system.

Description The Financial Series is composed of five modules: general ledger, accounts receivable, accounts payable, payroll, and order entry/invoicing. The general ledger module allows the user to design and implement custom financial reports at any stage. Income statements and balance sheets for present and previous periods are



available at any time. Special statements such as supporting schedules or change in financial condition can be created by the user. The accounts receivable module supports open-item and balance-forward accounting. All processing is done in batch mode. Operator entries are first stored in temporary transaction files and can be edited and corrected prior to posting. The accounts payable module supports activities tracking payable accounts and writing checks. Cash requirements reports are printed by vendor or accounts payable account number. Check reconciliation capabilities are also built into the system. The payroll module incorporates payroll calculation, printing of payroll checks, and related payroll and governmental reports. This module allows variable pay frequency periods, calculation of federal, state, and local taxes, and voluntary and statutory deductions, including advance earned income credit. The order entry/invoicing module contains the functions of order entry, invoicing, inventory control, and sales analysis. Invoice amounts are posted to the accounts receivable files after invoices are printed. Invoices, credit memos, and picking tickets are generated as needed.

SOLOMON SERIES SOFTWARE

TLB Inc
267 Great Valley Pkwy
Malvern PA 19355

► Solomon III General Accounting

An integrated accounting package

Price \$6,314, 9-module package

Environment Computers: those running PC-DOS or MS-DOS operating systems. Main storage: 256K bytes, 320K bytes for 3.0 versions; 10M-byte Winchester disk required. Source language: C.

Capabilities The Solomon series is a multicompany, multidivision accounting system for general-purpose business systems. File capacity on the system is limited only by available disk storage. The system consists of the general ledger, accounts payable, accounts receivable, payroll, fixed assets, inventory, purchasing, order entry, and job costing modules.

Description To facilitate entry, data entry screens can be configured to resemble the documents from which data is taken. All data and reports are automatically sorted when data is entered. Extensive audit trails isolate an entry to the particular session at which the transaction was recorded and the particular document from which the information was taken. Among the user definable features of the general ledger module are accounting cycles from one to thirteen; journals, journal transactions, and chart of accounts. Report generator creates balance sheets for profit centers, divisions, departments, regions, or any identified area of responsibility. In addition to 14 standard reports is the Ratio-Analysis Report, which lists 20 common financial ratios to aid in financial decisions and performs ratio analysis on subaccount groups as well as for companywide information. Exam-

ples of ratios available are current ratio, acid-test, inventory turnover, average days to turnover, days sales in inventory, accounts receivable turnover, debt to equity ratio, return on assets, gross profit ratio, asset turnover ratio, return on owners equity, and return on long-term capital. The accounts receivable module allows open-item or balance-forward accounting by customer. Finance charges are calculated automatically and can be turned off for individual customers. The system accepts multiple accounts and partial payment of invoices. The user has the option to compound or not to compound finance charges. Under the accounts payable module, recurring payables vouchers are allowed. Purchase terms are user definable, including automatic calculation of due dates, discount dates, and discount amounts. Multiple accounts are allowed, as are multiple checking accounts and partial payment of vouchers. The payroll system prints checks, 941 reports and W-2 statements. Options include the ability to print a separate W-2 for each location in which an employee worked. Earning types and deductions are user definable, and their number is limited only by storage capacity. The number of employees is limited only by disk space, and the system will handle tables for all states. Each order in the sales order entry/invoicing program can accept multiple line items—their number being limited only by disk storage space. Backorders are processed automatically, and drop ship orders are handled by the system. When an ordered item is out of stock, the system suggests a substitute item. Sale returns are also processed. Inventory valuation methods include LIFO, FIFO, average cost, and specific or user-defined identification standard. Replenishment methods are user selectable and include, fixed reorder quantity, fixed reorder cycle, and optional replenishment. The system accommodates multiple warehouses, and inter- and intrawarehouse transfers. It also recommends item substitutions when out-of-stock items are ordered. The purchasing and receiving module handles three type of purchase order—standard, blanket, and drop ship. Conversion of receiving unit of measure to stocking unit of measure is done automatically if desired. Reports include one that matches the purchase order with receipts and invoices. The job costing module provides flexible user definitions of job, phase, and cost-type structure. The system carries original and revised budgets and contract amounts and supports fixed fee, costs plus percentage of costs, time-and-materials, and internal job types as well as five status levels for each job. The system computes current and projected variances, estimated costs/units to complete, and suggested amounts to bill and relieve from work in process, based on the percentage completed. The fixed assets module supports the asset depreciation range system for items in service prior to January 1, 1981 and the accelerated cost recovery system for items in service after January 1, 1981. Three independent depreciation books can be kept for financial, federal tax, and state tax or simulated calculation. The system computes depreciation at a daily rate permitting, the user to define the frequency of depreciation calculations.

Every Solomon Series software package is password

protected for security. A tutorial demonstration carries the user through the processes involved in setting up the system and using it on a daily basis. Solomon also provides a Help key that indexes the user to the relevant section of the documentation and displays the explanatory text on the screen.

STAR SOFTWARE SYSTEMS

20600 Gramercy Pl
Torrance CA 90501

(213) 538-2511

► Accounting Partner II

An integrated accounting package

Price \$995, 5-module package

Environment Computers: those running CP/M, MP/M, CP/M-86, MP/M-86, MS-DOS, or PC-DOS operating systems. Main storage: 56K bytes; two 140K-byte diskette drives required; 10M-byte Winchester disk recommended. Source language: CB-80 and CB-86.

Capabilities The Accounting Partner II is a general business package designed to accommodate the most commonly encountered accounting systems. The system operates on a dual-diskette system, but a Winchester disk is recommended to eliminate excessive diskette swapping during operations. The system is fully integrated with all posting done automatically. Audit trails are provided and error checking is supported. Online editing and updating is also allowed.

Description The system consists of general ledger, accounts receivable, accounts payable, payroll, and inventory modules. The general ledger module supports six separate journals—cash receipts, cash disbursements, general, purchases, sales, and payroll. All transactions are controlled through these six journals using account name verification and account type checking for data integrity. This package provides for an unlimited number of accounts and of transactions per month. The chart of accounts and the report formats can be defined by the user. Among the reports are monthly, quarterly, and annual analysis printouts. Financial statements can be broken down into departmental detail reports. The accounts receivable module supports open-item and balance-forward accounting with an unlimited number of customer accounts and accommodates invoicing for standard stock and nonstock items. Also supported are retail and wholesale pricing, simultaneously. Repetitive monthly invoice charges are accommodated. In addition to discounts, the system tracks sales tax, freight charges, deposits, miscellaneous charges, miscellaneous comments, ship dates, FOB points, and shipping companies. The user can apply payments applied to individual invoices, oldest invoices, or on account. Credit memos are produced for any active invoice and are printed out. Invoices, month-end statements, credit memos, and mailing labels are also automatically printed out. Reports include month-to-date sales by item and price, invoice earnings, statements, and invoice registers. The accounts payable with purchase orders module

accesses price information from an item/part file and automatically produces purchase orders. It also accommodates automatic monthly invoices from a vendor for payment. Invoices can be distributed to 10 general ledger expense accounts. Debit memos can be entered to record the issue of any credit by vendors. Standard stock items ordered regularly are maintained in the item/part file; each item on file can have five pricing levels. Monthly product purchasing analysis reports are printed. The system provides for retail and wholesale pricing levels. Time card information maintained on this payroll system includes tips, miscellaneous income, commissions, bonuses, regular hours, overtime, sick hours, vacation hours, five separate deductions, exempt income, and gross deduction. Payroll calculations are done automatically and include gross pay, all federal taxes, state taxes, local taxes, and employee deductions. Reports include employee listings, payroll registers, W-2 information, 941 information, federal and state tax deposit histories, federal and state unemployment, and federal, state, and local tax tables. The system also maintains information on FICA, SDJ, FUTA, and SUTA deduction parameters. Fifty states and 99 localities are handled. Inventory valuation methods are supported under the system are FIFO, LIFO, average cost, and standard cost. Stock and nonstock items are also supported. The system is fully departmentalized and accepts multiple locations. It handles purchases, returns, shipments, and adjustments. Minimum and maximum levels are maintained. Reports include stock status, purchasing advice, average lead time for deliveries, and book-to-physical analysis. Star Software Systems also maintains telephone support for the end user.

STRUCTURED SYSTEMS GROUP

111 Broadway
Jack London Sq
Oakland CA 94607

(415) 268-1488

► Accounting Software System

An integrated accounting package

Price \$3,370, 6-module package

Environment Computers: those running CP/M, MP/M, CP/M-86, MP/M-86 or PC-DOS and based on either the 8080, 8085, Z80, 8086, or 8088 processor. Main storage: 64K bytes; 10M-byte Winchester disk recommended. Source language: CBASIC.

Capabilities All packages are menu-driven interactive accounting programs capable of printing standard financial reports. Series capacity is limited only by available disk storage space.

Description The Structured Systems Group accounting series consists of general ledger, accounts payable, accounts receivable, payroll, order entry, and inventory packages. All packages are integrated, though they can be purchased separately and run in standalone mode. All packages process data in the batch entry method to ensure data integrity and all verify account numbers for



validity during data entry. Multiple department and profit centers can be set up throughout the accounting system. Recurring journal entries in the general ledger module can be set up to automatically post each accounting period. Flexible report formats permit some customization. The accounts receivable module allows open-item and balance-forward accounting by customer and provides online inquiry. As in the general ledger module, recurring charges are generated automatically. In the accounts payable module, the user can hold or release payments or make partial payments. Printouts include a cash requirements report. The order entry module integrates with the accounts receivable and inventory modules. The user specifies sales and receivable accounts for each item. The inventory module maintains a 13-digit alphanumeric character set for part numbers. The user can specify reorder level and reorder quantity at any time. Valuation done is by average-cost method. Audit trails can be printed at the end of every data entry session. The payroll module maintains a total of 20 deductions and earnings categories for each employee. Among reports are the W-2, 940, 941, and DE-EB summary. The Structured Systems Group WP program, Word Right, can access all name and address files. Data also can be accessed by the proprietary data base management program, Analyst, or by the spreadsheet program, Magic Worksheet, for data manipulation and custom report formats.

The Structured Systems Group provides a software maintenance plan consisting of a technical support staff on call between 9:00 A.M. and 5:00 P.M., a priority selection table, and automatic updates of any new versions of modules released. The maintenance plan costs \$300 per module per year.

grams online. The modules by themselves cost \$990. System features include online help menus and password security. The general ledger module supports multiple departments and produces reports in detailed or summary format. Prior period adjustments are possible with 12 or 13 period accounting. In addition to Profit & Loss and Balance Sheet reports, the system provides for a Changes in Financial Position report. The accounts payable module can be cash or accrual and prints a cash requirement report. The accounts receivable module supports open-item and balance-forward accounting. Deferred billing and partial payments can be entered. Under the inventory module, items are maintained for up to 100 locations. Five costing methods are used—average cost, last cost, LIFO, FIFO, and pooled. The program may be run in real time or in batch mode. Four prices for each item are possible, and the system accounts for backorders. The entire Medallion series interfaces to the Medallion Spreadsheet for data manipulation and custom report generation.

TIMBERLINE SYSTEMS

7180 SW Fir Loop
Portland OR 97223

(503) 644-8155

► Medallion Collection Accounting System

An integrated accounting package

Price \$5,050, 5-module package

Environment Computers: those running under MS-DOS or PC-DOS operating systems. Main storage: 192K bytes. 5M-byte Winchester disk required. Source language: Pascal.

Capabilities File capacity is limited only by available disk storage.

Description The Medallion Collection of accounting software consists of five modules: general ledger, accounts payable, accounts receivable, payroll and inventory. The modules can be purchased separately and run in standalone mode. Before any application packages can be implemented, however, the program Starter Set must be purchased. This program is \$100 and is included in the system price. Starter Set is a combination installation-and-tutorial program. It is a one-time purchase only, regardless of the number of application pro-



SALES/DISTRIBUTION Compatibility Matrix

206.0025.001

Vendor/Package	Compatible Operating Systems														Others	
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System		Unix
Absolut Software Absolut Business and Inventory Management															•	
American Business Systems Order Entry and Inventory Management			•					•		•					•	
ASK Micro Accounting Plus Inventory Control			•					•								
Accounting Plus Point of Sale			•					•								
Accounting Plus Sales Order			•					•								
BOS National BOS/INVENTORY																
Bristol Information Systems INVENTORY MANAGEMENT SYSTEM			•				•			•						BOS/5, MBOS/5
Burroughs Easy Inventory							•			•						BTOS
Champion Software The Champion Inventory			•		•		•			•						
Computech Group SOLOMON-III Inventory							•			•						
SOLOMON-III Sales Order Entry/Invoicing							•			•						
CYMA CYMA Inventory	•	•		•		•	•	•	•							TurboDOS, CDOS
Data General CS Inventory/Order Entry																RDOS
Designers and Builders of Information Systems Wholesale Industry Distribution											•					TurboDOS
Distribution Sciences Zip Rate System							•									
Feith Systems and Software Inventory Control System										•		•			•	
Purchase Order Management										•		•			•	
Retail Appliance Store System										•		•			•	
Sales Order Entry										•		•			•	
Groundstar Software Wholesale Distribution										•						
Hayden Software Inventory							•									
Information Unlimited Software (IUS) Inventory Control and Analysis							•			•						
Order Entry							•			•						

Vendor/Package	Compatible Operating Systems															Others
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	Unix	
International Market Resources STATUS			•		•		•			•					•	
International Micro Systems (IMS) Wholesale/Retail Distribution System			•					•								
Micro Data Business Forms and Systems Retail Inventory			•													
Microcomputer Consultants Inventory Control			•		•		•	•	•	•						
Order Entry			•		•		•	•	•	•						
Purchasing			•		•		•	•	•	•						
Midwest Computer Center Inventory			•													
Open Systems Inventory System			•				•	•		•	•				•	•
Purchase Order Processing			•				•	•		•	•				•	•
Sales Order Processing System			•				•	•		•	•				•	•
Peachtree Software Business Accounting Inventory Control			•				•			•						
Business Accounting Sales Invoicing			•				•			•						
POSSE SWE-SAU							•									
RealWorld Software RealWorld Inventory Control			•		•		•	•	•	•	•				•	
RealWorld Order Entry/Billing			•		•		•	•	•	•	•				•	
RealWorld Sales Analysis			•		•		•	•	•	•	•				•	
Retail Solutions The Retailer								•								
S.S.R. INFOTORY	•															
INFOTORY							•			•						
Small Business Systems Group SBSG Inventory			•		•		•	•	•	•						
SBSG Invoicing			•		•		•	•	•	•						
Software Solutions Inventory Pro															•	
State of the Art Inventory Control															•	
Sales Invoicing															•	
Structured Systems Group (SSG) Inventory			•		•		•	•	•	•						
Order Entry			•		•		•	•	•	•						

Vendor/Package	Compatible Operating Systems															Others	
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	Unix		Xenix
Superex Business Software							•										
Superex Wholesaler																	
Taranto & Associates							•			•	•						
Accounts Receivable/Invoicing/Sales			•	•			•			•	•						
Inventory Control																	
TCS Software										•	•						
TCS INVENTORY			•	•						•	•						
TCS SALES																	
Trac Line Software							•		•		•				•	•	TurboDOS, RM/COS
R-TRAC																	
Trac Line Retailing							•		•		•				•	•	TurboDOS, RM/COS
Trac Line Wholesaling							•		•		•				•	•	TurboDOS, RM/COS



SALES/DISTRIBUTION

Features Matrix

206.0030.001

Vendor/Package	System Capabilities										
	General Accounting Interface	Inventory Control	Inventory Costing	Multiple Locations	Mark Up/Mark Down	Picking/Shipping Control	Point-of-Sale Processing	Purchase Orders	Reorder Reports	Sales Order Processing	Manufacturing
Absolut Software Absolut Business and Inventory Management
American Business Systems Order Entry and Inventory Management
ASK Micro Accounting Plus Inventory Control Accounting Plus Point of Sale Accounting Plus Sales Order
BOS National BOS/INVENTORY
Bristol Information Systems INVENTORY MANAGEMENT SYSTEM
Burroughs Easy Inventory
Champion Software The Champion Inventory
Computech Group SOLOMON-III Inventory SOLOMON-III Sales Order Entry/Invoicing
CYMA CYMA Inventory
Data General CS Inventory/Order Entry
Designers and Builders of Information Systems Wholesale Industry Distribution
Distribution Sciences Zip Rate System
Feith Systems and Software Inventory Control System Purchase Order Management Retail Appliance Store System Sales Order Entry
Groundstar Software Wholesale Distribution
Hayden Software Inventory
Information Unlimited Software (IUS) Inventory Control and Analysis Order Entry



Vendor/Package	System Capabilities										
	General Accounting Interface	Inventory Control	Inventory Costing	Multiple Locations	Mark Up/Mark Down	Picking/Shipping Control	Point-of-Sale Processing	Purchase Orders	Reorder Reports	Sales Order Processing	Manufacturing Retailing Wholesaling
International Market Resources STATUS										.	
International Micro Systems (IMS) Wholesale/Retail Distribution System	
Micro Data Business Forms and Systems Retail Inventory	
Microcomputer Consultants Inventory Control Order Entry Purchasing
Midwest Computer Center Inventory	
Open Systems Inventory System Purchase Order Processing Sales Order Processing System	
Peachtree Software Business Accounting Inventory Control Business Accounting Sales Invoicing	
POSSE SWE-SAU						.					.
RealWorld Software RealWorld Inventory Control RealWorld Order Entry/Billing RealWorld Sales Analysis	
Retail Solutions The Retailer
S.S.R. INFOTORY INFOTORY		
Small Business Systems Group SBSG Inventory SBSG Invoicing
Software Solutions Inventory Pro	
State of the Art Inventory Control Sales Invoicing	
Structured Systems Group (SSG) Inventory Order Entry	

Vendor/Package	System Capabilities												
	General Accounting Interface	Inventory Control	Inventory Costing	Multiple Locations	Mark Up/Mark Down	Picking/Shipping Control	Point-of-Sale Processing	Purchase Orders	Reorder Reports	Sales Order Processing	Manufacturing	Retailing	Wholesaling
Superex Business Software Superex Wholesaler	•	•	•		•	•			•	•			•
Taranto & Associates Accounts Receivable/Invoicing/Sales Inventory Control	• •	• •	•						•	•			
TCS Software TCS INVENTORY TCS SALES	• •	•				•				•			
Trac Line Software R-TRAC Trac Line Retailing Trac Line Wholesaling	• • •	• • •	• • •	•	• •	• •	• •	•	•	•		• •	•

SALES/DISTRIBUTION

Product Summaries

ABSOLUT SOFTWARE

2001 Beacon St
Boston MA 02146

(800) 227-8649
(617) 277-0610

► Absolut Business and Inventory Management

A complete financial and inventory control system

Price \$12,000–\$30,000 purchase, depending on configuration

Environment Computers: Plexus P60 and other microcomputers running under Unix. Main storage: not specified. Source language: UNIFY, C.

Capabilities Optional general ledger module with user-defined chart of accounts, up to 999 departments or divisions, posting to previous periods, and double-entry batch posting. Optional accounts payable module that allows full or partial payments, produces cash requirements reports, prints and reconciles checks drawn on multiple bank accounts, tracks available discounts, and posts all transactions to the general ledger. Inventory control, order processing, invoicing, and receivables tracking. Built-in, run-time UNIFY report writer.

Description The Absolut Business and Inventory Management system is built on the inventory and sales order processing module, available in four versions:

- Wholesale distribution—Includes pre- and postbill order processing, automatically modifies inventory status, including all sales or returns; provides five price levels for quantity or customer discounts
- Manufacturing—Adds serialized inventory management and multiple location stocking
- Multistore retailing—Inventory control with point-of-sale data collection, UPC support, commission reports, sales history, and flexible pricing
- Mail-order retailing—Maintains customer information, controls customer credit checks, provides full inventory status control.

Compatibility Matrix: 206.0025.001
Features Matrix: 206.0030.001

AMERICAN BUSINESS SYSTEMS

3 Littleton Rd
Westford MA 01886

(617) 692-2600

► Order Entry and Inventory Management System

An order, invoice, and inventory processing system

Price Vendor declined to provide

Environment Computers: microcomputers under CP/M, MP/M II, MS-DOS, or Unix. Main storage: 18K bytes. Source language: RM/COBOL.

Capabilities Tracks sales orders, invoices, and inventory levels. Supports various customer, product, and order discount structures. Handles separate billing and shipping addresses. Allows up to 90 items per order. Tracks quantities on hand, on order, on backorder, and on hold. Performs sales and margin analysis. Supports LIFO, FIFO, and weighted average costing methods. Monitors credit limits. Optional automatic interfaces to general ledger and accounts receivable.

Description The Order Entry and Inventory Management System assists in the tracking of customer orders and inventory levels. It can be combined with the BACS Accounts Receivable System for revenue and sales activity management.

Compatibility Matrix: 206.0025.001
Features Matrix: 206.0030.001

ASK MICRO

100 Blue Ravine Rd
Folsom CA 95630

(916) 985-6555

► Accounting Plus Inventory Control

An inventory control module

Price \$595 purchase

Environment Computers: any microcomputer running under CP/M or MP/M. Main storage: 48K bytes. Source language: not specified.

Capabilities Maintains inventory parts master file. Provides usage history of all inventory items. Produces exception reports containing order recommendations. Tracks quantities on hand, on order, and allocated to customers but not yet shipped. Audit trails. Inventory margin analysis. Standard or weighted average costing methods. Up to four decimal places allowed for cost and price. Password security.

Description The Accounting Plus Inventory Control system aids in maximizing profits and return on investment by tracking inventory turnover and stock levels. The system interfaces with the sales order and purchase order systems to provide up-to-date inventory information.

Compatibility Matrix: 206.0025.001
Features Matrix: 206.0030.001

ASK MICRO

100 Blue Ravine Rd
Folsom CA 95630

(916) 985-6555

► Accounting Plus Point of Sale

A retail sales accounting module

Price \$595 purchase

Environment Computers: any microcomputer running under CP/M or MP/M. Main storage: 48K bytes. Source language: not specified.

Capabilities Prints invoices with up to 24 stock or nonstock items per invoice. Displays customer credit available during invoice entry. Records customer deposits and allows transactions to be voided. Records payments by cash, check, or credit card. Maintains records on returned merchandise. Calculates discounts and royalty payments. Maintains records on up to 9 different taxes. Supports up to 99 sales departments. Performs sales analysis. Password security.

Description The Accounting Plus Point of Sale system is used with other Accounting Plus modules to provide a complete retail accounting system. It handles all types of retail accounting transactions, from simple cash register operations to complicated accounting procedures peculiar to the retail environment. The system is flexible enough to allow expenses to be paid from the cash register drawer.

The Accounting Plus Point of Sale system requires the Accounting Plus General Ledger, Accounts Receivable, and Inventory Control systems. Together, these systems provide an accurate inventory count, updated accounts receivable information, and timely financial standings.

Compatibility Matrix: 206.0025.001
Features Matrix: 206.0030.001

ASK MICRO

100 Blue Ravine Rd
Folsom CA 95630

(916) 985-6555

► Accounting Plus Sales Order

An order and invoice processing system

Price \$595 purchase

Environment Computers: any microcomputer running under CP/M or MP/M. Main storage: 48K bytes. Source language: not specified.

Capabilities Checks customer credit during sales order entry and invoicing. Prints order acknowledgements and invoices. Handles sales order changes, cancellations, and partial shipments. Allows nonstock items. Produces backlog and monthly sales reports by item number, customer, and other criteria. Allows up to 10 sales and 10 cost-of-goods-sold accounts. Password security.

Description The Accounting Plus Sales Order system tracks sales order backlog and inventory allocation sta-

tus. As orders are shipped, the system records the quantity of each item shipped and then automatically updates the sales order, accounts receivable, and inventory modules. Accounting Plus Sales Order requires the Accounting Plus Accounts Receivable and Inventory Control modules.

Compatibility Matrix: 206.0025.001
Features Matrix: 206.0030.001

BOS NATIONAL

2560 Royal La
Dallas TX 75229

(214) 484-2717

► BOS/INVENTORY

Part of a complete accounting system

Price Purchase: \$550 (single user), \$900 (multiuser)

Environment Computers: microcomputers running under BOS/5 or MBOS/5, including the IBM Personal Computer, Digital Equipment PDP 11/03-44, Burroughs B 20, and Sage II and IV. Main storage: not specified. Source language: MicroCOBOL.

Capabilities Inventory control. Sales analysis. Automatic price changes. Maintains audit trail of all inventory transactions. Interfaces to accounts receivable and invoicing modules.

Description BOS/INVENTORY provides full inventory control in both single- and multiuser environments. The inventory status report details on-hand inventory, book value with standard and actual costs, and inventory turnover. An audit trail of all transactions is maintained by the program.

Compatibility Matrix: 206.0025.001
Features Matrix: 206.0030.001

BRISTOL INFORMATION SYSTEMS

84 N Main St
Fall River MA 02720

(617) 679-1051

► INVENTORY MANAGEMENT SYSTEM

An inventory control program

Price \$800 purchase

Environment Computers: IBM Personal Computer and systems running under MS-DOS or CP/M. Main storage: 256K bytes. Source language: Databus and BUSINESS.

Capabilities Inventory control and costing. Multiple locations. Reports on item status, inventory turnover, gross profit, and margin analysis. Sales analysis based on multiple years. Unlimited file size. Password security.

Description INVENTORY MANAGEMENT SYSTEM is a menu-driven program designed to provide automated control over inventory turnover and stock levels. The system accepts orders, sales figures, transfers, returns, and other adjustments to inventory and supplies sophisticated reports on inventory performance.

Compatibility Matrix: 206.0025.001

Features Matrix: 206.0030.001

BURROUGHS

Burroughs PI
Detroit MI 48232

(313) 972-7000

► Easy Inventory

An inventory tracking system

Price On request

Environment Computers: Burroughs B 20 under BTOS. Main storage: not specified. Source language: not specified.

Capabilities Tracks items and quantities in stock. Records amount of stock on hand, stock already committed, and stock that requires reordering. Displays billing units and stockkeeping units, vendor names and last item price, sales volume and profitability, balance currently available for sale, and quantity price breaks, as well as each item's current price.

Description The Burroughs Easy (Executive Accounting System) Inventory is an assets control program that maintains a proper balance between inventory and sales and between cost and customer service. Such issues as what items require price adjustments, how each item affects profitability, what items sell best, and actual profit margin by item can be analyzed. In addition, such reports as a buyer's guide, price cost report by vendor, reorder reports, price books, stock status reports, physical inventory comparison count sheets, and stock valuation reports are produced.

Compatibility Matrix: 206.0025.001

Features Matrix: 206.0030.001

CHAMPION SOFTWARE

66 S Van Gordon
Suite 155
Lakewood CO 80228

(303) 987-2588

► The Champion Inventory

An inventory control program

Price Purchase: \$495 (8 bit); \$595 (16 bit)

Environment Computers: any microcomputer running under CP/M, CP/M-86, MS-DOS, or PC DOS. Main storage: 64K bytes. Source language: dBASE II.

Capabilities Controls inventory, using either perpetual or periodic inventory methods. Maintains date of last sale, quantities on order, back orders, year-to-date sales, supplier part numbers, and number of units promised to customers but not shipped. User-definable inventory item numbers. Organizes items in product groups and departments. Monitors stock levels. Uses weighted average costing method. Optional automatic interfaces to general ledger, accounts receivable, accounts payable, and purchase order control.

Description The Champion Inventory can be used as an independent program or with other Champion Business Accounting Software. All five business accounting modules reside online simultaneously, allowing the entire bookkeeping system to be updated automatically and immediately with a minimum of effort.

A multicompany version of The Champion Inventory designed for accountants handles up to 999 companies.

Compatibility Matrix: 206.0025.001

Features Matrix: 206.0030.001

COMPUTECH GROUP

Main Line Industrial Park
Lee Blvd
Frazer PA 19355

(215) 644-3344

► SOLOMON-III Inventory

Part of a complete accounting system

Price \$595 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT, other microcomputers running under MS-DOS. Main storage: 256K bytes. Source language: C.

Capabilities Number of inventory items limited only by available disk space. Allows two vendors per inventory item. Supports user-defined costing and replenishment methods. Allows sales discounts. Accommodates multiple warehouses, including inter- and intrawarehouse transfers. Recommends item substitutions for out-of-stock items. Interfaces to general ledger and invoicing modules.

Description SOLOMON-III Inventory works with other modules in the SOLOMON-III accounting system to provide current and accurate information on inventory levels and inventory costs. Replenishment methods supported include fixed reorder quantity, fixed reorder cycle, and user specified. Costing methods include LIFO, FIFO, average cost, specific item, standard, and user-specified item cost. Unit of measurement conversion tables can be specified by the user to ensure accurate costing and invoicing.

Compatibility Matrix: 206.0025.001
Features Matrix: 206.0030.001

COMPUTECH GROUP

Main Line Industrial Park
Lee Blvd
Frazer PA 19355

(215) 644-3344

► SOLOMON-III Sales Order Entry/Invoicing

An order processing system

Price \$595 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT, other microcomputers running under MS-DOS. Main storage: 256K bytes. Source language: C.

Capabilities Each order can accept an unlimited number of line items. Inventory, accounts receivable, and general ledger are automatically updated as an order is processed. Automatic backorder and allocation of out-of-stock items. Checks customer credit limit. Calculates state and local taxes. Maintains separate shipping and billing addresses. Handles returned items.

Description SOLOMON-III Sales Order Entry/Invoicing handles the entire order processing function.

It prints sales orders, invoices, and credit and debit memos, and it automatically deletes inventory items. The program holds an order until it has been completed, invoiced, and transferred to accounts receivable. All pricing is performed automatically at the time of order entry; pricing is based on the item unit price and available discounts as listed in the inventory files and on the customer discount level as recorded in the customer files.

Compatibility Matrix: 206.0025.001
Features Matrix: 206.0030.001

CYMA

2160 E Brown Rd
Mesa AZ 85203

(602) 835-8880

► CYMA Inventory

An inventory control program that interfaces to the CYMA accounting system

Price \$795 purchase

Environment Computers: microcomputers running under CP/M, MP/M II, CP/M-86, MP/M-86, Concurrent PC DOS, PC DOS, MS-DOS, CDOS, or TurboDOS. Main storage: 48K bytes. Source language: CBASIC.

Capabilities Maintains current information on inventory level and value. Processes sales orders, automatically placing out-of-stock items on backorder. Allows user-defined part numbers of 4 to 30 characters. Tracks up to 10 million items. Supports multiple price levels, with prices up to \$10 million per item. Automatically determines markup and price. Performs sales analysis and gross profit margin analysis. Prints stock bin labels and price tags. Allows up to 1,200 locations per line item. Interfaces to other CYMA accounting programs. Performs file locking in multiuser environments.

Description CYMA Inventory is a complete inventory management and order entry system that maintains multilevel bills of material, processes sales and purchase orders, tracks backorders, and handles subassemblies and finished items in multiple locations. It is designed for small manufacturing or wholesaling operations. Overstock and reorder reports help minimize inventory costs by speeding inventory turnover. Inventory value can be estimated using LIFO, FIFO, weighted-average, moving-average, or specific-item costing methods.

Compatibility Matrix: 206.0025.001
Features Matrix: 206.0030.001

DATA GENERAL

4400 Computer Dr
Westboro MA 01581

(617) 366-8911

► CS Inventory/Order Entry

An inventory tracking system

Price Vendor declined to provide

Environment Computers: Data General DESKTOP GENERATION Models 10, 20, and 30 under RDOS. Main storage: 64K bytes. Source language: Business BASIC.

Capabilities Preformatted screens. Order, invoice, and packing-slip data entry. Invoices. Automatically updates inventory. Report writer. Tracks sales by products and identifies good and bad sellers. Notices of reorder levels.

Description CS Inventory/Order Entry aids in business productivity as it tracks all inventory items, orders, shipments, and invoices. In addition, the system produces reports detailing sales activity, lost sales, date of last activity, reorders, inventory, physical inventory, various cost, one- and two-step invoicing, back order items, unit prices, split addresses, special shipping instructions, inventory inquiry, costing, adjustment, and capability. It also provides special management report forms.

Compatibility Matrix: 206.0025.001

Features Matrix: 206.0030.001

DESIGNERS AND BUILDERS OF INFORMATION SYSTEMS

One Mayfair Rd
Eastchester NY 10707

(914) 779-5292
(212) 933-4170

► Wholesale Industry Distribution

A customer order tracking system

Price \$1,000 purchase

Environment Computers: microcomputers running under OASIS or TurboDOS. Main storage: 48K bytes. Source language: BASIC.

Capabilities Inventory. Order entry/invoicing. Accounts receivable. Automatic adjustment of perpetual inventory and accounts receivable upon production of a customer invoice. Flexible pricing method by type of customer, type of product, and quantities.

Description Wholesale Industry Distribution consists of three modules that track customer orders through to posting to accounts receivable ledgers.

Its inventory module provides data entry procedures for inventory transfers, adjustments, and receipts with yearly totals tracked; user-selectable reporting of total inventory, specific inventory items, and wholesale costs and/or retail prices; and user-selectable inquiries by product number or product type, including a user-selectable wholesale cost extension.

The order entry/invoicing module provides data entry for orders, including interruption and restart at a detail line, product number verification, pricing, and automatic price extensions—allowing the user to override pricing to enter new items not listed in inventory. This module also computes sales tax by locale and freight; provides batch-printed invoices; updates inventory and customer account balances; computes month-to-date local sales tax totals; and enters invoice transactions to accounts receivable. Reports include a retail-wholesale cost comparison by invoice and sales analysis.

The accounts receivable module provides access to up-to-date account status information. Reports include a daily register, customer master report, detail aged accounts receivable report, monthly statements, and monthly invoice reports.

Compatibility Matrix: 206.0025.001

Features Matrix: 206.0030.001

DISTRIBUTION SCIENCES INC

1350 E Touhy Ave
Des Plaines IL 60018

(312) 635-0200

► Zip Rate System

A freight rating program

Price Purchase: \$950; \$300 for origin data diskette

Environment Computers: IBM Personal Computer and Personal Computer XT. Main storage: 128K bytes. Source language: not specified.

Capabilities Allows users to access freight rate index for the continental U.S. User-modifiable rating data base.

Description Zip Rate System computerizes freight class rates by indexing them according to zip code. The entire freight class system is accommodated, and specific product tables and rate adjustments are included.

Compatibility Matrix: 206.0025.001

Features Matrix: 206.0030.001

FEITH SYSTEMS AND SOFTWARE INC

One Bala Plaza
Suite E-133
Bala Cynwyd PA 19004

(215) 667-5575

► Inventory Control System

An inventory tracking system for any OASIS-based computer

Price Purchase: \$750 (wholesaling); \$1,500 (manufacturing)

Environment Computers: microcomputers running under OASIS-16, MS-DOS, Unix, or Xenix. Main storage: varies. Source language: BASIC.

Capabilities Inventory control through interfaces to order entry, job costing, and purchase order management systems. Automatically generates production run pull sheets. Provides reorder advisory reports and determines economic order quantities. Automatically costs assemblies and subassemblies.

Description The Inventory Control System is available in versions for wholesale distributors and manufacturers. The manufacturing version features master production scheduling and a bill of material processor. Multiple bin locations are optional.

Compatibility Matrix: 206.0025.001
Features Matrix: 206.0030.001

FEITH SYSTEMS AND SOFTWARE

One Bala Plaza
Suite E-133
Bala Cynwyd PA 19004

(215) 667-5575

► Retail Appliance Store System

A completely integrated retail appliance sales program

Price \$4,000

Environment Computers: microcomputers running under OASIS-16, MS-DOS, or Unix. Main storage: varies. Source language: BASIC.

Capabilities Sales kept by serial number, item, salesperson, and other keys. Computes profit on each line of each invoice. Compensates for delivery charges and other miscellaneous deductions before computing gross profit per sales. Simplifies payment of commissions and emphasizes sales for profit, not volume.

Description The Retail Appliance Store System is designed specifically for large ticket retail operations. The system produces various sales reports and totals.

Compatibility Matrix: 206.0025.001
Features Matrix: 206.0030.001

FEITH SYSTEMS AND SOFTWARE

One Bala Plaza
Suite E-133
Bala Cynwyd PA 19004

(215) 667-5575

► Purchase Order Management

An automated purchase order management system

Price \$1,500 purchase

Environment Computers: microcomputers running under OASIS-16, MS-DOS, or Unix. Main storage: varies. Source language: BASIC.

Capabilities Handles up to 99 lines per purchase order. Features inventoried or noninventoried item specials. Reports open orders per item, vendor, or department. Also reports projected cash requirements based on orders.

Description The Purchase Order Management package controls the complete purchasing cycle—from time of order to time of payment. In addition to generating reports, the program allows the user to review purchase orders on screen. The system can be fully integrated with the Feith Accounts Payable, Material Requirements Planning, and Inventory Control Systems.

Compatibility Matrix: 206.0025.001
Features Matrix: 206.0030.001



FEITH SYSTEMS AND SOFTWARE

One Bala Plaza
Suite E-133
Bala Cynwyd PA 19004

(215) 667-5575

► Sales Order Entry

An automated sales order entry program

Price \$4,000–\$5,000 purchase

Environment Computers: microcomputers running under OASIS-16, MS-DOS, or Unix. Main storage: varies. Source language: BASIC.

Capabilities Accommodates orders up to 32 lines long. Can be posted as orders or directly as invoices. Verifies account open-to-buy status for each customer to prevent charges over specified credit limit. Back orders automatically generated for all incomplete invoices.

Description The Sales Order Entry package is a complete system that includes accounts receivable, invoicing, and credit management functions.

Compatibility Matrix: 206.0025.001

Features Matrix: 206.0030.001

GROUNDSTAR SOFTWARE

2160 41st Ave
Capitola CA 95010

462-5250
(408) 446-3432

► Wholesale Distribution

A sales inventory record-keeping system

Price Purchase: \$3,000; \$6,000 with Accounting

Environment Computers: any OASIS-based computer. Main storage: 16K bytes. Source language: OASIS BASIC.

Capabilities Handles wholesale and retail pricing. Automatic decrease of inventory upon shipping of each order. Maintains inventory totals for monthly sales and purchases, last unit costs, average unit costs, quantity on hand, and quantity available for issue. Automatically creates purchase orders from sales orders, backorders, or scheduled orders, and automatically adjusts vendor accounts balances.

Description Wholesale Distribution is a set of three programs—sales, inventory control, and purchasing—designed to track and report on a company's production cycle. The sales module can accommodate both retail and wholesale pricing structures based on quantity ordered and provides sales analysis formatted as gross profits and booking reports. The inventory control program tracks each line item in the inventory. It can display any stock item's current status and details purchase orders due in and sales orders that have been back ordered and scheduled for shipment. It also provides a re-order report and a physical inventory report that provide information on inventory status by stocking number or product class. The purchasing module controls all purchasing and receiving and interfaces with inventory con-

trol so that each purchase order received is posted directly to inventory, where quantities are increased and the last unit cost adjusted.

Compatibility Matrix: 206.0025.001

Features Matrix: 206.0030.001

HAYDEN SOFTWARE

600 Suffolk
Lowell MA 01853

(617) 937-0200
(800) 343-1218

► Inventory

An inventory monitoring system

Price \$250 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT. Main storage: 64K bytes. Source language: not specified.

Capabilities Interactively updates inventory records. Divides products into categories. Sorts and reports individual items by product group. Inventory items can be assigned internal or manufacturer-supplied codes. Allows three sales prices per item. Uses last or average costing methods.

Description The Inventory system is a standalone program that gives management and purchasing personnel an updated analysis of inventory stock levels, product sales performance, and profitability on an item-by-item basis. Automated inventory control keeps inventory levels at a minimum while avoiding out-of-stock conditions.

Compatibility Matrix: 206.0025.001

Features Matrix: 206.0030.001

**INFORMATION UNLIMITED SOFTWARE
(IUS)**

2401 Marinship Way
Sausalito CA 94965

(415) 331-6700

► Inventory Control and Analysis

A module of the EasyBusiness financial management series

Price \$595 purchase

Environment Computers: IBM Personal Computer. Main storage: not specified. Source language: not specified.

Capabilities Interactive inventory tracking. User-defined inventory item numbers with up to 16 characters. User-specified inventory classifications. Stores base price, discounts, alternate items, warehouse location, and vendor information for each inventory item. Performs inventory valuations using LIFO, FIFO, or weighted average costing methods. Reports in tabular or graphic format.

Description Inventory Control and Analysis helps maintain inventory levels, tracks purchase orders, monitors slow-moving and overstocked items, and reports on sales trends and profit margins for each inventory item. The system features optional interfaces to the general ledger and order entry packages.

Compatibility Matrix: 206.0025.001
Features Matrix: 206.0030.001

**INFORMATION UNLIMITED SOFTWARE
(IUS)**

2401 Marinship Way
Sausalito CA 94965

(415) 331-6700

► Order Entry

Part of the EasyBusiness financial management series

Price \$595 purchase

Environment Computers: IBM Personal Computer. Main storage: not specified. Source language: not specified.

Capabilities Automatically prints order confirmations, picking lists, and invoices. Monitors order status, including future, on hold, backordered, active, and recurring classifications. Provides sales reports by salesman, customer, or territory. Accumulates sales taxes paid, taxes invoiced, and nontaxable items sold for government reports. Optional automated interfaces to accounts receivable and inventory control programs.

Description Order Entry maintains tables for unit prices, discount percentages, and miscellaneous charges. Add-on tax rates can be specified for all items, including special taxes on specific products and rates for multiple locations.

The formats of order confirmations, picking lists, credit memos, and invoices can be easily modified using the

IUS EasyWriter II WP program.

Compatibility Matrix: 206.0025.001
Features Matrix: 206.0030.001

INTERNATIONAL MARKET RESOURCES

38 Garden Rd
Wellesley MA 02181

(617) 235-8830

► STATUS (Sales Tracking and Territory Update System)

A sales tracking and analysis system

Price \$1,500 purchase

Environment Computers: any DIBOL-based micro-computer. Main storage: 64K bytes. Source language: DIBOL.

Capabilities Maintains customer and prospect information. Tracks sales and initiates follow-up. Provides random data retrieval and access to all data elements. Word processing interface. Uses prompted data entry and edited redisplay. Provides history, backup files, and batch and inquiry status reports.

Description STATUS is a sales tracking and analysis system that provides sales call up, sales follow-up, and call forecasting with word processing interaction. The system is designed to respond to inquiries with current information, anticipate and initiate call notices, forecast future periods, and level work loads. Sales dates are automatically maintained by customer contact and reason for follow-up. All customer characteristics are captured and updated via a series of customized programs. Output includes entries to order entry, invoicing, accounts receivable, payroll, and general ledger files and product line, product sales, and commission calculation reports.

Compatibility Matrix: 206.0025.002
Features Matrix: 206.0030.002

INTERNATIONAL MICRO SYSTEMS (IMS)

6445 Metcalf
Shawnee Mission KS 66202

(913) 677-1137

► Wholesale/Retail Distribution System

A distribution control system

Price Vendor declined to provide

Environment Computers: any CP/M- or MP/M-based microcomputer. Main storage: 48K bytes. Source language: not specified.

Capabilities Purchasing and receiving. Inventory control. Order entry and invoicing. Salesman commission reporting. Backorder management. Accounts receivable.

Description The IMS Wholesale/Retail Distribution System is a set of modules that control the entire distribution cycle, from merchandise ordering through order entry and invoicing to collection of receivables. Reports include:

- Customer purchases
- Sales register
- Invoices
- Vendor purchases
- Purchase orders
- Open order list
- Receiving report
- Inventory valuation and gross margin
- Over/under stock
- Cost of sales
- Order desk receipt
- Reports master list
- Commission statements
- Backorder confirmation
- Backorders by item
- Backorders by customer
- Backorder invoices
- Account list
- Sales register
- Cash-applied register
- Statements
- Aged trial balance
- Ledger cards
- Past-due letters.

Compatibility Matrix: 206.0025.002
Features Matrix: 206.0030.002

MICRO DATA BUSINESS FORMS AND SYSTEMS

5707 Lacey Blvd
Suite 104
Olympia WA 98503

(206) 459-3300

► Retail Inventory

Tracks inventory status information

Price \$600 purchase

Environment Computers: any CP/M-based microcomputer. Main storage: 48K bytes. Source language: C-BASIC-2.

Capabilities User-defined customer numbers and service codes. Error detection and invalid entry prevention. Handles up to 2,400 items per disk. Thirty-, sixty-, ninety-day and prior-year history. Menu-driven data entry.

Description Retail Inventory is a program that tracks inventory status information, utilizing vendor or 18-character alphanumeric part number identifiers. It can accommodate up to five levels of pricing, plus cost. Reports include inventory evaluation, suggested purchase orders, inventory listing, ranking by dollar amount and units sold, and open-item, lost-sales, and out-of-stock lists.

Compatibility Matrix: 206.0025.002
Features Matrix: 206.0030.002

MICROCOMPUTER CONSULTANTS

PO Box 1377
Davis CA 95617

(800) 824-5952
(916) 756-8104

► Inventory Control

An inventory module that interfaces to other accounting modules

Price \$600 purchase

Environment Computers: microcomputers running under CP/M, CP/M-86, MP/M II, MP/M-86, or MS-DOS 2.0. Main storage: depends on configuration. Source language: PL/I.

Capabilities Inventory control through user-defined item numbers of up to 13 digits. Determines inventory value by using average, standard, LIFO, or FIFO costing methods. Item costs determined to tenths of cents. Performs ABC analysis. Supports up to 20 pricing levels. Automatically reprices items according to selected pricing level. Supports record and file locking under multiuser operating systems.

Description Inventory Control can be combined with other Microcomputer Consultants accounting modules to form the company's INMASS manufacturing or INCOME financial control system. Inventory Control interfaces directly to accounts receivable, sales order entry, bill of material processing, job costing, and material requirements planning modules to provide extensive control over work flow and inventory turnover.

Compatibility Matrix: 206.0025.002
Features Matrix: 206.0030.002

MICROCOMPUTER CONSULTANTS

PO Box 1377
Davis CA 95617

(800) 824-5952
(916) 756-8104

► Order Entry

Part of a complete accounting system

Price \$600 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT, other microcomputers running under CP/M, CP/M-86, MP/M II, MP/M-86, or MS-DOS 2.0. Main storage: depends on configuration. Source language: PL/1.

Capabilities Sales order entry and tracking. Matches orders with items on hand. Allows partial shipments and prorated billings for partially filled orders. Back orders out-of-stock items. Supports record and file locking in multiuser environments.

Description Order Entry is part of the Microcomputer Consultants INMASS manufacturing control and INCOME financial management systems. It provides information that helps management to keep order response time at acceptable levels and identify potential bottlenecks. Orders are immediately reconciled with inventory; out-of-stock items are placed in a date-sequenced backorder file.

Compatibility Matrix: 206.0025.002
Features Matrix: 206.0030.002

MICROCOMPUTER CONSULTANTS

PO Box 1377
Davis CA 95617

(800) 824-5952
(916) 756-8104

► Purchasing

Part of a complete accounting and manufacturing control system

Price \$600 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT, other microcomputers running under CP/M, CP/M-86, MP/M II, MP/M-86, or MS-DOS 2.0. Main storage: depends on configuration. Source language: PL/1.

Capabilities Prints purchase orders. Reports status of open purchase orders by item or vendor. Maintains vendor performance statistics. Interfaces to inventory control and accounts payable. Supports record and file locking under multiuser operating systems.

Description Purchasing provides comprehensive purchasing control to users of the Microcomputer Consultants INMASS manufacturing control or INCOME financial management system. Purchasing interacts with the inventory module of either system to provide an accurate status report of on-hand and on-order items. The module also supports inventory valuation through the LIFO, FIFO, weighted-average, and standard costing methods.

Compatibility Matrix: 206.0025.002
Features Matrix: 206.0030.002

MIDWEST COMPUTER CENTER

5785 Merle Hay Rd
PO Box 188
Johnston IA 50131

(515) 276-3387

► Inventory

A customer order tracking system

Price \$1,495 purchase

Environment Computers: any CP/M-based microcomputer. Main storage: 64K bytes. Source language: FORTRAN

Capabilities Perpetual maintenance of on-hand inventory and reserved and available quantities. Supports a wide range of costing methods. Captures usage records. Prints stock status reports by job or part number range with economic order quantities shown. Displays most-current purchase order and date due for shipment and manages backorders with customer updates on backordered items and shipping information. Job costing and job budgeting interfaces.

Description Inventory is designed to track customer orders from order entry through invoicing. It produces and confirms work or sales orders and prints shipping tickets. In addition, it deletes items sold from inventory, makes costing entries to general ledger, and passes orders to accounts receivable for automatic invoicing. Sales analysis data is then updated regarding price, cost, and profitability by customer, customer type, product, salesperson, and highest to lowest margin items.

Compatibility Matrix: 206.0025.002
Features Matrix: 206.0030.002

OPEN SYSTEMS

430 Oak Grove
Suite 409
Minneapolis MN 55403

(612) 870-3515

► Inventory System

An inventory control system

Price \$695 purchase

Environment Computers: any microcomputer based on CP/M, MP/M, MS-DOS, PC DOS, OASIS, Unix, or Xenix. Main storage: 64K bytes. Source language: Business BASIC, COBOL.

Capabilities Interactive. Can support multiple users. FIFO, LIFO, and average costing. Online update of inventory via sales order processing, accounts receivable, and accounts payable. Provides automatic inventory alert by established reorder point. Provides cost of new stock requirements estimates. Processes manual inventory adjustments and prints inventory adjustments log. Offers parameter selection on inventory reports by item, product category, and activity level.

Description The Inventory System is a market-response and stock control system that improves purchasing and sales decisions by providing access to up-to-date balances and comprehensive valuation statistics. In addition it can process quantity adjustments, maintain an inventory file, and perform automatic month and year-end maintenance. Printed reports include an inventory status report, inventory alert report, valuation report, detail list, and sales analysis.

Compatibility Matrix: 206.0025.002
Features Matrix: 206.0030.002

OPEN SYSTEMS

430 Oak Grove
Minneapolis MN 55403

(612) 870-3515

► Purchase Order Processing

Part of a complete accounting system

Price \$695 purchase

Environment Computers: microcomputers running under MS-DOS, PC DOS, CP/M, MP/M II, OASIS, Unix, or Xenix. Main storage: 64K bytes. Source language: Business BASIC.

Capabilities Prints purchase orders. Tracks items on order. Logs received orders. Handles returned orders. Allows cancellation or modification of purchase orders. Optional interface to inventory control module, with on-line updates of on-order and on-hand records.

Description Purchase Order Processing enables users to track purchases from initial order through receipt of goods and monitor returned goods and changed orders. The program features optional interfaces to accounts payable, general ledger, inventory, and job costing modules from Open Systems.

Compatibility Matrix: 206.0025.002
Features Matrix: 206.0030.002

OPEN SYSTEMS

430 Oak Grove
Suite 409
Minneapolis MN 55403

(612) 870-3515

► Sales Order Processing System

An order processing system

Price \$695 purchase

Environment Computers: any microcomputer based on CP/M, MP/M, MS-DOS, PC DOS, OASIS, Unix, or Xenix. Main storage: 64K bytes. Source language: Business BASIC, COBOL.

Capabilities Interactive. Supports multiple-user order processing for complete order control of in-process orders and backorders. Enters, verifies, and changes orders. Prints packing slips. Processes returned goods and backorders. Accounts receivable interface.

Description The Sales Order Processing System automatically processes orders from entry through packing, verification, and invoicing. It provides parameter selection on reports by customer, inventory item, order number, and order status; sales analysis, with reports sorted by customer, product category, inventory item, salesperson, or invoice date; an open order report with breakdown by order status; an accounts receivable system interface for posting and tracking invoiced orders; and optional general-ledger, job-cost, and inventory-control system interfaces. Output includes invoices, sales journals, miscellaneous credit journals, and a cash receipts journal, as well as customer statements and sales analysis.

Compatibility Matrix: 206.0025.002
Features Matrix: 206.0030.002

PEACHTREE SOFTWARE

3445 Peachtree Rd NE
Atlanta GA 30326

(404) 239-3000

► Business Accounting Inventory Control

An inventory control program

Price \$595 purchase

Environment Computers: any microcomputer running under CP/M or MS-DOS. Main storage: 50K (8 bit) or 128K bytes (16 bit). Source language: Microsoft BASIC.

Capabilities Grouping of inventory items by department for more meaningful reporting. Comprehensive management reports, including price lists, department summaries, reorder reports, and inventory reports. Three price levels for each item. Standard or average cost reporting. Real-time item status checking.

Description Business Accounting Inventory Control is designed to control all inventory operations. The system includes an Inventory Master File that tracks and reports on cost and stock movement and provides the following: department numbers of up to three digits; product codes of up to 15 digits; units of measure; reorder levels and quantities; and period-beginning, current, and year-to-date activity. Reports include a maintain inventory file, enter transactions control, examine inventory status, inventory status, inventory price list, detail inventory, department summary, physical inventory, reorder, period to date, and year to date.

Compatibility Matrix: 206.0025.002
Features Matrix: 206.0030.002

PEACHTREE SOFTWARE

3445 Peachtree Rd NE
Atlanta GA 30326

(404) 239-3000

► Business Accounting Sales Invoicing

A sales order processing system

Price \$595 purchase

Environment Computers: microcomputers running under CP/M or MS-DOS. Main storage: 52K bytes (8 bit) or 128K bytes (16 bit). Source language: Microsoft BASIC.

Capabilities Automatically updates inventory and accounts receivable files. Checks customer credit limit. Verifies specified product codes. Allows automatic or manual numbering of invoices. Maintains separate shipping and billing addresses. Automatically calculates finance charges. Reports taxable and nontaxable sales by state, county, and municipality. Allows early-payment discounts.

Description Business Accounting Sales Invoicing processes sales orders by simultaneously accessing and updating the data files of the Peachtree Business Accounting Accounts Receivable and Inventory Control

programs. Therefore, data need not be reentered to each of these programs, and users can monitor sales order processing from a single menu-driven program.

Compatibility Matrix: 206.0025.002
Features Matrix: 206.0030.002

POSSE INC

2828 Forest La
Suite 2161
Dallas TX 75234

(214) 241-9444

► SWE-SAU

A point-of-sale auditing system

Price \$1,000 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT. Main storage: 192K bytes. Source language: not specified.

Capabilities Audits transaction data from Sweda L-50 electronic cash registers. Produces exception reports detailing missing or questionable transactions. Reports sales by item for use in balancing the gross margin ledger.

Description SWE-SAU polls, reformats, and audits sales information from Sweda L-50 cash registers. SWE-SAU gathers sales data from local cash registers through a direct interface and from remote cash registers through a 1.2K-baud modem. The program analyzes each line item, noting every item sold, marked down, returned, or voided. The programming capabilities of the Sweda L-50 (e.g., user-defined media keys, department names, discounts, and tax rates) are accommodated by SWE-SAU.

The program produces a series of reports:

- **Sales Audit Report**—A daily sales and trial balance report that details sales activity by media and merchandise. Discrepancies are reported.
- **POS Exception**—Flags missing transaction numbers, improper Z reports, and discrepancies in the cash register's nonresettable total.
- **Sales by Item**—Shows sales by product class within each user-defined department for each store. This report aids in balancing the gross margin ledger.
- **Summary Report**—Ensures that all transactions have been properly posted.

Compatibility Matrix: 206.0025.002
Features Matrix: 206.0030.002

REALWORLD SOFTWARE

Dover Rd
Willow Hill Bldg
Chichester NH 03263

(603) 798-5700

► RealWorld Inventory Control

Part of a family of accounting programs

Price \$650 purchase

Environment Computers: microcomputers running under CP/M, CP/M-86, MP/M-86, CP/M-86, MS-DOS, PC DOS, OASIS, TurboDOS, MmmOST, RM/COS, Unix, or RT-11. Main storage: not specified. Source language: RM/COBOL, Level II COBOL.

Capabilities Maintains inventory. Allows inventory transaction entry, editing, and posting through the use of a transaction list and a journal. Supports multiple warehouses. Features LIFO, FIFO, average, and standard inventory costing methods. Maintains detailed LIFO and FIFO cost histories at the warehouse level. Prints physical count worksheets. Runs ABC analysis on all or selected inventory groups. Optional interface to RealWorld Sales Analysis system.

Description RealWorld Inventory Control provides small distributors in single- or multiple-warehouse environments with efficient methods of tracking inventory status and cost. The program features automatic price change utilities as well as price lists, stock status reports, inventory valuations, purchasing and reorder advisory reports, and usage reports.

Compatibility Matrix: 206.0025.002
Features Matrix: 206.0030.002

invoices, credit memos, item stock status, purchasing advice, backorders, and sales analysis. In addition, the system interfaces with the RealWorld accounts receivable, inventory, and general ledger systems.

Compatibility Matrix: 206.0025.002
Features Matrix: 206.0030.002

REALWORLD SOFTWARE

Dover Rd
Willow Hill Bldg
Chichester NH 03263

(603) 798-5700

► RealWorld Sales Analysis

A sales analysis program

Price \$650 purchase

Environment Computers: microcomputers running under CP/M, CP/M-86, MP/M II, MP/M-86, MS-DOS, PC DOS, TurboDOS, MmmOST, OASIS, Unix, RM/COS, or RT-11. Main storage: 64K bytes. Source language: RM/COBOL.

Capabilities Analyzes sales. Tracks sales by customer, customer type, customer sales volume. Accounts receivable and order-entry/inventory-control interfaces.

Description RealWorld Sales Analysis tracks sales figures by customer, customer type, customer sales volume, salesman, state, item, item category, and item sales volume. All tabulated analysis is available as hard-copy reports.

Compatibility Matrix: 206.0025.002
Features Matrix: 206.0030.002

REALWORLD SOFTWARE

Dover Rd
Willow Hill Bldg
Chichester NH 03263

(603) 798-5700

► RealWorld Order Entry/Billing

An order processing system

Price \$650 purchase

Environment Computers: microcomputers running under CP/M, CP/M-86, MP/M II, MP/M-86, MS-DOS, PC DOS, TurboDOS, OASIS, MmmOST, Unix, RM/COS, or RT-11. Main storage: 64K bytes. Source language: COBOL.

Capabilities Item file maintenance and lists. Receivings entry, editing, and posting to journal. Online order status inquiry. One- and two-step order processing. Prints invoices, picking tickets, price lists, stock status, and purchasing advice. Tracks backorders and prints backorder reports.

Description RealWorld Order Entry/Billing System provides inventory analysis and reporting for small distributors. The system includes an item file with utilities for addition, deletion, change, and inquiry of each item entered. Output includes item receivings, order status,

RETAIL SOLUTIONS INC

1211 Alderwood Ave
Sunnyvale CA 94086

(408) 734-0653

► The Retailer

An accounting system with point-of-sale order processing

Price \$7,500 purchase (includes software, cash register, and required cables)

Environment Computers: IBM Personal Computer and Personal Computer XT. Main storage: 192K bytes. Source language: not specified.

Capabilities Inventory control. Purchasing and receiving. Point-of-sale order processing and inventory updating. Direct interface to cash register. Optional general ledger and accounts receivable modules.

Description The Retailer allows up to eight cash registers to be linked to an IBM Personal Computer. Retail Solutions supplies the cash registers as well as the cables to connect the computer and the registers. The Retailer provides extensive control over inventory status and point-of-sale pricing. When a clerk enters an item number on a cash register, the computer automatically supplies the item price, affording full control over cash transactions, commissions, and promotional discounts. The Retailer automatically adjusts inventory levels, enabling users to monitor inventory turnover and cost.

Compatibility Matrix: 206.0025.002
Features Matrix: 206.0030.002

Compatibility Matrix: 206.0025.002
Features Matrix: 206.0030.002

S.S.R. CORP

1600 Lyell Ave
Rochester NY 14606

(716) 254-3200

► INFOTORY

An inventory management system for the IBM Personal Computer

Price Purchase: \$425 (diskette); \$575 (disk)

Environment Computers: IBM Personal Computer and Personal Computer XT, Digital Equipment Rainbow 100, Wang Professional Computer, Zenith Z100, and other microcomputers under MS-DOS. Main storage: 64K bytes (DOS 1.0); 128K bytes (DOS 2.0). Source language: Microsoft BASIC.

Capabilities Maintains inventory levels for up to 50,000 items. Sales and cost analyses. Allows quantity pricing. Tracks purchases. Monitors reorder levels. Maintains product location records.

Description INFOTORY supplies management and purchasing information. Its data management feature, ANYREPORT, is flexible for creating customized reports. Sales and cost analysis functions are provided by categories (e.g., product groups, departments) as requested by the user.

Compatibility Matrix: 206.0025.002
Features Matrix: 206.0030.002

S.S.R. CORP

1600 Lyell Ave
Rochester NY 14606

(716) 254-3200

► INFOTORY

An inventory management system for Apple microcomputers

Price Purchase: \$295 (Apple II); \$575 (Apple III)

Environment Computers: Apple II+, Apple IIe, Apple III. Main storage: 48K bytes. Source language: Applesoft BASIC, Business BASIC.

Capabilities Tracks and generates reports on inventories, including information on pricing, stock bin location, product category, and reorder point. Maintains usage history. Allows interactive inquiry. Includes ANYREPORT report writer.

Description In addition to being a complete inventory management system, INFOTORY includes a versatile report selector that creates any number of reports based on user specifications. INFOTORY manages the flow and value of inventory from receiving to sales as well as providing purchase order management information.

The Apple II+ and IIe version tracks up to 1,400 items on two diskette drives; the Apple III version tracks 26,600 items on the ProFILE III 5M-byte disk drive.



SMALL BUSINESS SYSTEMS GROUP INC

6 Carlisle Rd
Westford MA 01886

(617) 692-3800

► SBSG Inventory

A retail/distribution tracking and reporting module for retail and wholesale operations

Price \$250-\$900, depending on computer and operating system

Environment Computers: Tandy TRS-80 Models I, II, III, and 4 under CP/M; other microcomputers running under CP/M, MP/M II, CP/M-86, MP/M-86, or MS-DOS. Main storage: 64K bytes. Source language: BASIC.

Capabilities Inventory master list. Prices. Period and year-to-date sales. Stock status reports. Minimum reorder points. Commissions. Can handle systems that detail as many as 23,000 parts.

Description SBSG Inventory is designed to meet the specific needs of retail and wholesale operations, offering commission reporting/retail or retail and cost/price listings. The program helps the user avoid cash flow problems by reducing the likelihood of overstocking. The module stores inventory data at up to five sites and codes for 9 to 99 salespeople. Information from SBSG Inventory can be shared with SBSG Accounts Receivable through the SBSG Invoicing system.

Compatibility Matrix: 206.0025.002
Features Matrix: 206.0030.002

SMALL BUSINESS SYSTEMS GROUP INC

6 Carlisle Rd
Westford MA 01886

(617) 692-3800

► SBSG Invoicing

An automated accounts receivable program

Price \$250-\$900, depending on computer and operating system

Environment Computers: Tandy TRS-80 Models I, II, III, or 4 under CP/M; other microcomputers running under CP/M, MP/M II, CP/M-86, MP/M-86, or MS-DOS. Main storage: 64K bytes. Source language: BASIC.

Capabilities Tracks accounts receivable, shipping charges, and sales tax. Indicates amount of cash payments.

Description SBSG Invoicing supplements the SBSG Accounts Receivable Module and cannot run on a stand-alone basis. Accounts Receivable prints 10 lines of customer purchase data on invoice forms, produces a selected number of shipping labels, and updates accounts receivable totals as either open or closed invoices. Each line can be declared taxable or nontaxable and can have a dollar value or percentage discount applied. When linked with SBSG Inventory, this module depletes in-

ventory immediately and pulls description and price information. In the coordinated system, each invoice can be distributed to up to five general ledger income accounts as well as to accounts receivable and shipping, sales tax, and cash.

Compatibility Matrix: 206.0025.002
Features Matrix: 206.0030.002

SOFTWARE SOLUTIONS INC

PO Box 301
Muscatine IA 52761

(319) 264-1384

► Inventory Pro

An inventory management and reporting program

Price Purchase: \$895 (batch update); \$1,200 (point-of-sale update); \$2,500 (multistore retailing)

Environment Computers: microcomputers running under the UCSD p-System, including the IBM Personal Computer and Personal Computer XT, Apple II and III, and Sage II and IV. Main storage: 64K bytes. Source language: Pascal.

Capabilities Menu-driven data entry and query. Inventory control. Controls both purchasing and sales order processing. Produces master inventory lists, price lists, stock status reports, inventory turnover analyses, reorder advisory reports, and sales analysis reports.

Description Inventory Pro is a menu-driven inventory management program that tracks merchandise by product line, item number, unit, and stock bin location. It produces a variety of inventory status reports, including physical count worksheets. The program is available in three versions:

- Basic batch update inventory control
- Point-of-sale update with invoicing
- Multistore retailing with commission reporting and facilities for handling cash, credit, layaway, and COD transactions.

Compatibility Matrix: 206.0025.002
Features Matrix: 206.0030.002

STATE OF THE ART3183-A Airway Ave
Costa Mesa CA 92626

(714) 850-0111

► Inventory Control

An inventory control and costing program

Price \$395-\$595 purchase**Environment** Computers: Apple II, II+, IIe, and III; IBM Personal Computer. Main storage: varies. Source language: UCSD-Pascal.**Capabilities** Tracks on-hand and on-order inventory quantities. Calculates economic order quantities (EOQs) and minimum and maximum stock levels. Supports LIFO and FIFO inventory costing methods. Audit trails. Optional interfaces to other accounting modules.**Description** Inventory Control combines sophisticated data base management and reporting capabilities to assist in inventory recordkeeping and evaluation. The program generates inventory count sheets with item location and costing information for use in physical inventory reconciliation.**Compatibility Matrix:** 206.0025.002
Features Matrix: 206.0030.002

STATE OF THE ART3183-A Airway Ave
Costa Mesa CA 92626

(714) 850-0111

► Sales Invoicing

An invoicing and cash receipts package

Price \$395-\$595 purchase**Environment** Computers: Apple II, II+, IIe, and III; IBM Personal Computer. Main storage: varies. Source language: UCSD-Pascal.**Capabilities** Invoice generation. Preprinted or system-generated forms. Recurring billing. Comprehensive sales journal reporting, including gross profit analysis, sales commission accumulation, and monthly profitability by invoice, salesman, and customer. Audit trails.**Description** Sales Invoicing links with the accounts receivable and, optionally, inventory control modules to update customer and inventory balances, item turnover, and sales volume. The system retrieves customer addresses, billing instructions, and pricing information from disk files while printing sales invoices.**Compatibility Matrix:** 206.0025.002
Features Matrix: 206.0030.002

STRUCTURED SYSTEMS GROUP (SSG)5204 Claremont Ave
Oakland CA 94618

(415) 547-1567

► Inventory

An inventory tracking and control system

Price \$495 purchase**Environment** Computers: microcomputers running under CP/M, MP/M II, CP/M-86, MP/M-86, PC DOS, or MS-DOS. Main storage: 48K bytes. Source language: CBASIC.**Capabilities** Activity report. Valuation report. Auditability proof listing. Reorder report. Item lists. Item file printing.**Description** SSG Inventory supplies a variety of current customer and order statistics, including item number, description, retail price, weighted average value, and total inventory value for all reported items. In addition, the system assists in the tracking of reorder points and standard reorder quantity values, as well as in the tracking of activity for a current week, month, or quarter, and for month-to-date, quarter-to-date, or year-to-date statistics.**Compatibility Matrix:** 206.0025.002
Features Matrix: 206.0030.003

STRUCTURED SYSTEMS GROUP (SSG)5204 Claremont Ave
Oakland CA 94618

(415) 547-1567

► Order Entry

An order processing system

Price \$495 purchase**Environment** Computers: microcomputers running under CP/M, MP/M II, CP/M-86, MP/M-86, MS-DOS, or PC DOS. Main storage: 48K bytes. Source language: CBASIC.**Capabilities** Current information on every transaction. Held items. Inventory depletions. Stock available. Invoice status. Posting status. Sales-tax method of shipment.**Description** SSG Order Entry processes invoices at the point of purchase or in one daily batch, providing each with an order number, order processor's identification, terms, customer's purchase order number, shipping method, accounts receivable customer number and discount code, and a 30-character general-purpose reference. In addition, items not listed in inventory, customers not included in an accounts-receivable listing, and different ship-to and bill-to addresses can be supported. The system can also process up to 99 line items per order, with quantity, description, unit price, shipment extensions, information on held shipments, and a separate calculation of percentage discount given for each line item.**Compatibility Matrix:** 206.0025.002
Features Matrix: 206.0030.002

SUPEREX BUSINESS SOFTWARE151 Ludlow St
Yonkers NY 10705

(914) 964-5200

► Superex Wholesaler

An integrated accounting program for wholesale distributors

Price \$600 purchase**Environment** Computers: IBM Personal Computer and Personal Computer XT, compatible computers. Main storage: not specified. Source language: not specified.**Capabilities** Tracks sales orders from initial order through shipment, billing, and customer payment. Automatically back orders out-of-stock items. Performs customer credit check. Full inventory tracking and valuation on up to 30,000 inventory items.**Description** Superex Wholesaler is an integrated system that provides inventory, order processing, and accounts receivable functions. Sales orders are automatically reconciled with inventory; out-of-stock items are put on backorder. After goods are shipped, the system bills the customer and updates the accounts receivable

records. Superex Wholesaler also provides management reports on customer history, current price lists, on-order items, gross profit margin, and current inventory value. The system accommodates discounts, price overrides, sales taxes, and up to 10 pricing levels.

Compatibility Matrix: 206.0025.003
Features Matrix: 206.0030.003

TARANTO & ASSOCIATES121 Paul Dr
San Rafael CA 94903

(415) 472-2670

► Accounts Receivable/Invoicing/Sales Analysis

A sales and distribution system

Price \$200 purchase**Environment** Computers: any microcomputer running under CP/M, MS-DOS, or PC DOS. Main storage: 64K bytes. Source language: BASIC.**Capabilities** Sales analysis by product code. Figures sales commissions. Generates mailing lists by customer code or zip code. Handles up to 2,000 customers.**Description** Accounts Receivable/Invoicing/Sales Analysis is a program that can handle up to 2,000 customers. An invoice-oriented system, it can print actual invoices, showing up to 51 individual items—both taxable and nontaxable—on each invoice. The program can be linked to an inventory system and can provide an inventory master file, by part number, that displays file, price, description, and the data that inventory is updated. Output includes a listing of invoices not yet billed, open items, closed items, an aging analysis of open items, sales update reports, seller summary, and sales analysis.**Compatibility Matrix:** 206.0025.003
Features Matrix: 206.0030.003

TARANTO & ASSOCIATES

121 Paul Dr
San Rafael CA 94903

(415) 472-2670

► Inventory Control

An inventory system

Price \$200 purchase

Environment Computers: any microcomputer running under CP/M, MS-DOS, or PC DOS. Main storage: 64K bytes. Source language: BASIC.

Capabilities Screen inquiry. Cost data suppressible. Selective report printing. Handles up to 15,000 items when interfaced to invoicing and general ledger systems.

Description Inventory Control keeps track of up to 5,000 items, detailing such situations as out of stock and reorder points. Reports formatted by range of vendor and/or range of part code can be generated. Part codes can have up to 12 positions, and up to 5,000 items can be stored.

Compatibility Matrix: 206.0025.003
Features Matrix: 206.0030.003

TCS SOFTWARE

3209 Fondren Rd
Houston TX 77063

(713) 977-7505

► TCS INVENTORY

An inventory package with built-in data base manager

Price Determined by dealer

Environment Computers: microcomputers running under CP/M or MS-DOS. Main storage: 56K bytes (8 bit), 85K bytes (16 bit). Source language: BASIC.

Capabilities Records current inventory levels on item-by-item basis. Provides audit trail for transaction entries changing inventory status. Maintains summary and optional 12-period detail history of inventory status and movement. Provides flexible collection of management reports for inventory control.

Description TCS INVENTORY can be used as a standalone module or interfaced with other modules in the TCS Total Accounting System, which includes TCS LEDGER, TCS RECEIVABLES, TCS PAYABLES, TCS PAYROLL, TCS SIMPLE (a report and query processor), TCS SALES, and TCS MATERIALS.

Compatibility Matrix: 206.0025.003
Features Matrix: 206.0030.003

TCS SOFTWARE

3209 Fondren Rd
Houston TX 77063

(713) 977-7505

► TCS SALES

An automated sales order entry and tracking system

Price Determined by dealer

Environment Computers: microcomputers supporting MS-DOS. Main storage: 85K bytes. Source language: BASIC.

Capabilities Captures order information at point of entry and tracks it through scheduling, shipping, and recording into TCS INVENTORY and TCS RECEIVABLES. Complete item detail, partial shipments, and automatic generation of order and invoice numbers. Produces packing lists, production schedule lists, product requirement lists, and sales analysis by item or salesperson.

Description TCS SALES can be used as a standalone module or interfaced with other accounting systems. The TCS SALES package, combined with the other modules of the TCS Total Accounting System, provides the user with all the advantages of an integrated accounting system, plus the sophistication and flexibility of a built-in data base manager.

Compatibility Matrix: 206.0025.003
Features Matrix: 206.0030.003

TRAC LINE SOFTWARE

51 Alpha Plaza
Hicksville NY 11801

(516) 935-7500

► R-TRAC

A fully integrated multi-user retail business system

Price \$3,800 purchase

Environment Computers: Any supporting OASIS, Unix, Xenix, MS-DOS, PC DOS, MP/M-86, RM/COS, or TurboDOS. Main storage: 64K bytes. Source language: OASIS BASIC, RM/COBOL.

Capabilities Handles various business-related activities, including accounting, inventory, and sales analysis for retailers with annual revenues between \$1 million and \$20 million.

Description R-TRAC integrates point of sale, inventory control, accounts receivable, accounts payable, general ledger, order entry, and cash flow analysis applications. The program can be used in both single- and multiuser environments.

Compatibility Matrix: 206.0025.003
Features Matrix: 206.0030.003



TRAC LINE SOFTWARE

51 Alpha Plaza
Hicksville NY 11801

(516) 935-7500

► Trac Line Retailing

Combines with an integrated accounting system to provide retail sales control

Price \$695 purchase

Environment Computers: microcomputers running under MS-DOS, PC DOS, OASIS, MP/M-86, RM/COS, TurboDOS, Unix, and Xenix. Main storage: not specified. Source language: OASIS BASIC or RM/COBOL.

Capabilities Point-of-sale processing. Automatically adjusts inventory for each over-the-counter sale. Records all payments, including cash, check, credit card, store credit, or gift certificates. Distributes cash receipts to sales journal. Assists in staff scheduling. Interfaces directly to any cash register with an RS-232C serial interface. Allows product- or vendor-specific discounts and markdowns. Calculates sales commissions and reports on sales performance. Produces documentation for delivery and shipping.

Description Trac Line Retailing customizes the Trac Line Integrated Accounting system for use in retail environments. Under Trac Line Retailing, a computer terminal can be combined with an electronic cash drawer to replace a cash register with a sophisticated point-of-sale system that regulates inventory levels, records sales statistics, and protects against payment errors. The Trac Line Integrated Accounting system provides control of accounts receivable, accounts payable, inventory, billing, purchasing, and sales order processing. Options include general ledger and purchase order modules.

Compatibility Matrix: 206.0025.003

Features Matrix: 206.0030.003

Registers and tracks all products through serial numbers.

Description Trac Line Wholesaling modifies the Trac Line Integrated Accounting system for use in a wholesale distribution shop. The program assist wholesalers in matching inventory to market demand by:

- Tracking seasonal and cyclical sales trends
- Establishing turnover rates
- Tracking the profit margin of each product
- Weighing potential profit against shelf cost
- Facilitating management of sales force
- Enabling quick changes in inventory
- Setting prices by vendor, product class, or other criteria

The basic system can be expanded with optional general ledger, point-of-sale, sales quotation, and purchase order modules.

Compatibility Matrix: 206.0025.003

Features Matrix: 206.0030.003

TRAC LINE SOFTWARE

51 Alpha Plaza
Hicksville NY 11801

(516) 935-7500

► Trac Line Wholesaling

Customizes an integrated accounting system for wholesale distribution

Price \$595 purchase

Environment Computers: microcomputers running under MS-DOS, PC DOS, OASIS, MP/M-86, RM/COS, TurboDOS, Unix, or Xenix. Main storage: not specified. Source language: OASIS BASIC, RM/COBOL.

Capabilities Produces all documentation, including warehouse pick slips, invoices, credit memos, and shipping labels. Holds standing orders. Maintains pricing levels by quantity, item, vendor, or customer. Prices can be marked up from cost or marked down from list.

AUERBACH On . . .

Microcomputer Spreadsheet Packages

INTRODUCTION

Today's managers, facing myriad problems and choices, need practical decision-making tools. Typical questions arising during the course of any business day are represented by the following situations:

- A manager wants to measure sales force productivity. Who is getting the job done? Whose expenses are too high based on volume of sales generated?
- A manager needs a long-term bank loan. The loan officer will look at some financial ratios, including the current ratio (current assets divided by current liabilities) and quick ratio (sum of cash, receivables, and marketable securities to current liabilities) and the debt-to-equity ratio. This manager has \$10,000 on hand and can use it to pay accounts payable, to purchase more inventory, or to keep as cash and take no action. What should be done with the \$10,000?
- A manager expects a 17 percent increase in sales this coming year and a corresponding increase in related advertising costs. What will the balance sheet and income statements look like at the end of that year? What will happen to the net profit-to-sales ratio?

How can a manager best answer these questions? Manual calculations are time-consuming and cannot be easily manipulated to answer what-if questions for contingency planning. Another option, assigning the task to the company's data processing department (assuming there is one), can be frustrating. Generally, DP departments have a processing backlog and results are not immediate; iterations take even longer.

The best option is to use a microcomputer equipped with spreadsheet software. A spreadsheet is an analytical, easily learned tool that can answer what-if questions and provide instant decision modeling. This article describes how to use spreadsheets and compares the most popular packages.

SPREADSHEET SOFTWARE

Spreadsheet packages provide a large electronic worksheet in a row-and-column format similar to an accountant's columnar pad. Typical electronic spreadsheets have 63 columns and 254 rows: columns are labeled with letters, starting with A and ending with BK; rows are numbered from top to bottom (1-254). The intersections of the columns and rows form cells; the column and row labels specify the address of any cell. For example, B45 refers to the cell in the second column from the left, 45 rows from the top. The address A1 is the upper left-hand corner of the spreadsheet; BK254 is the lower right-hand corner.

The average video screen displays only a portion (window) of the spreadsheet, usually containing nine columns and 22 rows of data. Directional arrow keys that control the cursor—highlighted by the inverse green or yellow video—move this window around the spreadsheet. As the cursor moves from cell to cell across the screen, the window adjusts automatically. When the spreadsheet program is first loaded into the microcomputer, the matrix of cells is empty and the cursor appears in the upper left-hand corner (cell A1).

A procedure called pointing speeds formula writing. The

user inserts a label (text) or a value (a number or mathematical formula) into the cell by typing the cell address on a keyboard or by moving the cursor to the desired cell and pressing the RETURN key. The cursor then returns to the original cell to continue writing the formula.

Most spreadsheets contain more than 40 built-in mathematical, statistical, financial and engineering functions, although the choice varies between packages. For example, the function SUM adds a row or column of data. Statistical functions AVERAGE, MAX, and MIN compute an average or select the high and low values from a row or column of numeric data. Special financial functions, such as NPV (net present value) can also be computed.

Spreadsheet formats and data are easily manipulated by the user, similar to the way text is manipulated in word processing. For example, rows or columns can be inserted or deleted from the spreadsheet, and individual cells can be edited rather than completely retyped. Portions of the spreadsheet can be copied from one area of the sheet to another.

The completed spreadsheet is a powerful modeling tool because mathematical relationships between cells are easily expressed. Mathematical formulas inserted in the various cells automatically recalculate that cell's value if any data it depends on is entered into the spreadsheet. A skeleton spreadsheet—empty of data but with all labels and mathematical relationships intact—can be loaded, completed, and stored on the diskette under a new file name. A few keystrokes will print out the completed spreadsheet and clear the screen to reload the shell for another analysis, or for preparation of a different spreadsheet. Each diskette can store several spreadsheet files, depending on spreadsheet size and disk capacity.

These procedures may seem complicated but quickly become second nature. Because no programming knowledge is required, spreadsheet concepts can usually be learned in four hours. A user can, with the manual available for reference, be functional in a day; speed comes with practice.

The First-Generation Spreadsheet

First-generation electronic spreadsheet packages are relatively easy to learn and offer basic spreadsheet functions. However, they do not provide much formatting flexibility or exclusive online help facilities.

VisiCalc. The first microcomputer spreadsheet was the Apple Computer Inc VisiCalc, a name derived from the words *visible calculator*. The VisiCalc program was written in 1978 for an Apple microcomputer by Harvard Business School students Dan Bricklin and Bob Frankston to do repetitive accounting assignments. Apple turned down the opportunity to buy the program; so, an associate, Dan Fystra, helped the students market the first copies at \$80 each. Today, Software Arts Inc holds the VisiCalc copyright and markets the software.

This easy-to-learn program calculates a filled-in spreadsheet

relatively quickly. It contains 63 columns and 254 rows and formats numeric displays to two decimal places.

VisiCalc operates from a command line displayed by pressing the / key. The command line—BCDEFGIMPSTVW—seems initially cryptic but soon becomes almost self-explanatory (see Table 1). Pressing the corresponding key reveals a set of sub-commands. For example, /I reveals INSERT: R C, which inserts a row or a column at the cursor location when the R or C key is pressed.

Table 1. The VisiCalc Command Line

B = Blank	G = Global	S = Storage
C = Clear	I = Insert	T = Titles
D = Delete	M = Move	V = Version
E = Edit	P = Print	W = Window
F = Format	R = Replicate	— = Repeating Label

VisiCalc has some disadvantages, however. Users complain that VisiCalc cannot display commas or dollar signs, and negative values are preceded by minus signs—accountants prefer to see a negative balance enclosed in parentheses. Also, only one column or row can be inserted or deleted at a time, and the column-width command (within the /G global command) affects all columns and cannot vary individual column widths. Finally, VisiCalc cannot be used on microcomputers with CP/M operating systems.

SuperCalc. In 1980, Sorcim Corporation marketed SuperCalc for the CP/M user. SuperCalc spreadsheets resemble VisiCalc's spreadsheets in appearance and in the command line structure used (also initiated by the / key). It does contain some refinements, however, including individual column-width settings, a small built-in help screen (activated by pressing the ? key), and the ability to protect cells from accidental erasure of labels or formulas.

SuperCalc also has some drawbacks. Most noticeable is the use of different command keys for entering labels and formulas into the programs—an annoyance for the knowledgeable VisiCalc user switching to SuperCalc.

CalcStar. CalcStar®, introduced by MicroPro International Corporation in 1981, interfaces with the other MicroPro Star series software, including WordStar® (the largest-selling word processing package for microcomputers) and InfoStar® (a two-part file management program consisting of DataStar® and ReportStar®).

CalcStar has a help screen occupying the top third of the screen, but to the expert user, the spreadsheet seems slow to recalculate and redraw itself. The command structure, different from any other major spreadsheet, uses the ; key to initiate a command. If moving data between the various programs—spreadsheet, word processing, and file management—is desired, CalcStar can do the job very well. Recently, MicroPro announced availability of an updated version of CalcStar.

Second-Generation Spreadsheets

Some users need higher program capability than the VisiCalc, SuperCalc, and CalcStar spreadsheets give. The second-generation spreadsheets offer many additional features, including improved formatting capability, both globally and within cells, and extensive online help screens providing a quick review of rarely used commands. Second-generation spreadsheets are well represented by the MicroSoft Corporation Multiplan and the Sorcim SuperCalc² (an upgrade of SuperCalc).

Multiplan. Multiplan, introduced in the summer of 1982, is second only to VisiCalc in sales for microcomputer spreadsheets and runs on most major microcomputers, including those with CP/M. Multiplan's appearance, command structure, and logic is the same regardless of the microcomputer used. Only the special function keys differ (because of keyboard designs), and those keys are described in the built-in help screen accessed by the ? key.

The program incorporates many of the features sought by VisiCalc users. Formatting options include automatic centering, left and right justification, dollar signs, commas, parentheses for negative balances, and a choice of the number of positions displayed to the right of the decimal point. Column width can be set individually, and multiple rows or columns can be inserted or deleted at one time.

Cell addresses are referenced by row and column number designations. For example, VisiCalc cell A1 is called R1C1 in the Multiplan program. Instead of the cryptic command line found in VisiCalc and SuperCalc, Multiplan spells out the entire word. A command can be executed by moving the inverse cursor to the desired command and pressing the return key or by pressing the first letter of the command. The subcommands are also spelled out and executed in the same manner.

The Multiplan user can name individual cells or groups of cells used in calculations. For example, if cell R1C1, containing a sales figure, is labeled SALES and cell R1C2, containing a commission percentage, is labeled PERCENT, then the formula calculating commission paid in cell R1C3 may be written as SALES*PERCENT. This feature greatly simplifies formula writing for large, complicated spreadsheets.

The sort command, another useful feature, enables the user to perform multilevel sorting, ordering data as needed, column by column, and restricting the sort to particular rows.

The major drawback of Multiplan is its size. Whether used on an Apple IIe or an IBM Personal Computer, Multiplan leaves less free space for labels, numbers, and formulas than VisiCalc does. For example, on an Apple IIe with 64K bytes of memory, VisiCalc leaves 37K bytes of memory free; Multiplan leaves only 18K bytes. On an Apple IIe with a 128K-byte memory, Multiplan loads the entire program into the computer, leaving 37K bytes of memory for the spreadsheet, while VisiCalc leaves 96K bytes unused. Multiplan, however, com-

pensates for this memory shortage by linking the spreadsheets—one sheet automatically draws data from up to eight other sheets saved on the same disk. For example, one sheet of budget data, including project name, responsibility, priority, and dollar amount can be prepared with one project per named row. Up to eight budget reports can be designed to arrange and subtotal the data by priority, responsibility, or demand. If the data changes, only the original sheet requires updating; each dependent sheet will reflect the new information when the original and dependent sheets are loaded. Because Multiplan runs on a variety of microcomputers, including those with CP/M operating systems, users who switch to SuperCalc will not have to learn a new spreadsheet.

SuperCalc². In 1983, Sorcim released an updated version of SuperCalc—SuperCalc²—to run on CP/M operating systems and the IBM Personal Computer. Although similar, it has significant new features.

SuperCalc² consolidates sheets of similar format. For example, a program reporting regional sales figures can be designed once, saved as a blank, and reloaded for each regional report. Then, in a consolidate-and-add function, each sheet is loaded into the computer and the data on the new sheet automatically adds to the data previously displayed on the screen. After the last regional report is loaded, the figures displayed represent the national sales total, and that report can be saved under a different file name.

The sort capability of SuperCalc² is more flexible than the Multiplan columnar-only sort function. It sorts text and numbers by row or column, in alphabetical or numerical order, and in ascending or descending order.

Calendar functions are another new feature. A Sorcim DAT-TIM program run prior to loading SuperCalc² allows the use of MONTH, DAY, YEAR, WDAY, JDATE, and TODAY functions. The functions then correspondingly return the month, day, year, weekday, Julian calendar date, and the date entered through DATTIM. Date calculations for accounts receivable aging can only be made by writing formulas in the other spreadsheets.

Third-Generation Integrated Spreadsheets

Integrated spreadsheets represent a variation of second-generation spreadsheets made possible by the increase of computer memory and are sometimes referred to as the third generation. The Lotus Development Corporation Lotus 1-2-3[™] and the Context Management Systems Inc Context MBA[™] exemplify this latest development in spreadsheet technology. These programs require large amounts of memory (256K bytes is adequate) and must be used with larger 16-bit microcomputers.

Lotus 1-2-3. Lotus 1-2-3, a very fast spreadsheet package, is written in assembly language. Lotus 1-2-3 consists of a spreadsheet, a graphics component, and a data base. This

large spreadsheet includes 256 columns and 2,048 rows and resembles VisiCalc; its cell addresses and formulas follow the VisiCalc alphanumeric convention. The full command name, however, is displayed and can be selected with the TAB key or by keying the first letter of the command. Subcommands can be displayed and selected in the same manner.

The range function, used when formatting or copying cells, makes the inverse cursor expand to highlight the entire block of cells involved. This visual cue simplifies formatting individual groups of involved cells. The cursor returns to its normal one-cell size when formatting is complete.

The Lotus 1-2-3 package sorts data quickly, using a primary and a secondary key, in ascending or descending order. Cell formatting offers most needed options, including centering. Labels can be written across multiple cells, and various date manipulation functions, as well as four optional methods of displaying the date—month-day-year, day-month-year, month-year, and day-month—are available. Lotus 1-2-3 contains virtually every built-in function found in other packages—logical arguments, statistical analyses, engineering values, and business and financial calculations.

With a couple of keystrokes, the designed spreadsheet is moved into the color graphics display. Bar, pie, and line charts are available.

Lotus 1-2-3 data base capabilities are extensive but do not replace a dedicated data base management program. Each row in the sheet is a record, and each column in the record is a field. A file can therefore have 2,048 records, with each record containing 256 fields. The data base mode has search and select criteria to extract data meeting specified parameters. It also has such statistical functions as count, sum, average, standard deviation, maximum, and minimum.

Lotus 1-2-3 is a formidable program, however, contained on at least five diskettes. Extensive manuals and a comprehensive online tutor floppy disk is part of the package. Nevertheless, learning this program takes a considerable amount of time.

Context MBA. The Management Systems Context MBA is another versatile integrated spreadsheet program. It offers these six functions combined in one package: spreadsheet, graph, telecommunications, data base, forms, and word processing.

Unlike the Lotus 1-2-3, which displays a spreadsheet or a graph, Context MBA creates up to four windows simultaneously. A user can generate a spreadsheet in one quadrant and a graph in the second quadrant, bring text from the word processing function into the third quadrant, and then clear the screen to design forms in the fourth quadrant.

The Context MBA spreadsheet—larger than the first- and second-generation spreadsheets but smaller than the Lotus 1-2-3—has 95 columns and 999 rows. It, like VisiCalc, also uses the alphanumeric cell address for formulas.

Although Context MBA integrates five programs into one, each individual module may not have the power of a separate program. Nevertheless, an integrated package is a valuable and efficient tool for the sophisticated user.

The Context MBA spreadsheet is slow in processing because of the language used to write the program (i.e., UCSD p-System). In addition, learning to use Context MBA is a formidable task for the beginner. The manuals contain more than 400 pages and the Context MBA package does not include an online tutorial disk.

Spreadsheet Packages for Home Computers

More than 60 or 70 spreadsheet packages constitute today's market, and some are available for the 8-bit home computer. They include the ARTSCI Inc Magic Calc™ for the Apple Computer Apple II+ and IIe and the Computer Software Associates Inc PractiCalc 64 for the Commodore Corporation Commodore 64.

Some specialized spreadsheets are also currently available. Peachtree Software Inc markets PeachCalc™ for CP/M systems and IBM personal computers to interface with their general ledger packages. Perfect Software Inc markets Perfect Calc™ for 16-bit microcomputers, which includes 17 built-in programs, such as stock portfolio management, individual income tax, and cash flow and professional fee analysis.

The Newest Spreadsheets

The newest releases on the market include the Sorcim SuperCalc³™ and the Paladin Software Corporation (formerly VisiCorp) VisiCalc Advanced Version™ and VisiCalc IV™, which are more powerful versions of SuperCalc² and VisiCalc respectively. SuperCalc³ includes a graphics capability. Both SuperCalc³ and VisiCalc IV require a minimum of 128K bytes on a 16-bit microcomputer. The VisiCalc Advanced Version will run on a 128K bytes on an 8-bit or 16-bit microcomputer and does not include graphics but does incorporate almost all popular Multiplan features.

Spreadsheet Applications

The spreadsheet derives its popularity from its ability to manipulate numbers. As stated, once a completed spreadsheet is designed and the formulas are tested, it automatically recalculates the value of any cell that is dependent on the data entered, saving time and effort and freeing the user to plan for implementing the results. General-purpose spreadsheets match the special-purpose financial modeling programs found only on larger mainframes and surpass them with the advantages of flexibility and direct user control.

The decision to buy a spreadsheet program depends on user needs. Some of the many varied uses of spreadsheets are demographic projections, personnel data management, fiscal monitoring, and portfolio management.

Demographics. Demographic projections typically involve many separate calculations. A spreadsheet program can make these calculations, average the results, and apply the results to the latest actual data for a given period of years in a fraction of the time needed to do this manually. For example, it took the New Jersey Department of Education only three hours to complete a 10-year statewide projection of number of enrollments by grade level for kindergarten through the 12th grade, a task that previously took three months to complete. In subsequent years, it will take less than an hour to insert a row of new data, copy a new row of formulas, and print a report.

Personnel. A spreadsheet can be used to monitor employee absenteeism data and to calculate a monthly percentage of sick days to work days per month by department. Another report, derived from the same data, identifies those employees who have accrued more vacation days than are permitted to be carried over from one year to the next. At year ending, an equitable and workable vacation schedule can be generated by the spreadsheet program.

Fiscal Monitoring. A management spreadsheet can be used to monitor a part-time employee's salary account. A spreadsheet can be set up for the fiscal year, with each row designated as a pay period. Assuming the hourly pay rates are known, total gross salary per pay period for all employees paid from the part-time salary account is easily calculated. Columns, included for the declining balance, and such functions as COUNT and AVERAGE are used to determine the number of pay periods an individual works, the average hours worked per pay period per employee (which can be used in future budget preparation), and the number of employees paid in that pay period. The estimated number of pay periods that budgeted money is available to pay is calculated by dividing the remaining balance by the average per-pay-period total payroll to date. If the result is less than the number of pay periods remaining in the year, some decisions must be made—reschedule hours, transfer additional funds, or reduce staff. The average per-pay-period payroll multiplied by the number of pay periods yields an estimate of total annual funds needed. That figure, compared to the annual budgeted amount, reveals a projected surplus or deficit. Two additional columns accommodate dollars added to the budget without affecting the actual year-to-date data.

Portfolio Management. Dow Jones offers the Dow Jones News and Retrieval Service®, a telecommunications service accessible by a telephone and modem. It provides current stock quotes, among other services. When used with Dow Jones Spreadsheet Link®, the user can transfer stock prices and other data directly into a spreadsheet. This service supports the VisiCalc, Multiplan, and Lotus 1-2-3 packages.

Supplemental Programs. A variety of supplemental programs that work with spreadsheets are available. For example, the Sofstar Inc PeachTree Connection enables the PeachTree Software Inc general ledger programs to transfer up to five years of data into VisiCalc, Multiplan, and Lotus 1-2-3 for an IBM personal computer. The MicroSPARC Inc PROOF™ for the Apple II+ and IIe gives a printed record of all formu-

las and data by cell location. The Solutions Inc VIS/Bridge/REPORT enables a user with a VisiCalc file to enhance the report's appearance and simplify the printing process—especially useful for reports exceeding one page.

Selecting a Spreadsheet

As stated, approximately 70 spreadsheets are now available—a spreadsheet for almost every microcomputer marketed. Some spreadsheets are easier to use than others. For example, where a lack of keyboard skills can frustrate the nontypist, a spreadsheet with a mouse (a separate palm-sized device attached by cable to the computer) may be the answer.

The mouse houses a ball on its underside; as it is rolled across the desktop, a cursor on the screen moves in a similar pattern. The user points to a command by positioning the cursor on top of the command, and pushing a button on the mouse, causes the command to be executed.

The Multiplan spreadsheet is designed to work with a mouse. It is optional (with added hardware) on the IBM personal computers, whereas the Apple Macintosh® incorporates the mouse as a standard feature.

Easy-to-learn VisiCalc is recommended for the beginner. Commands are few, and once learned, they can be applied to all other spreadsheets. VisiCalc can save a spreadsheet in a format that other spreadsheet programs as well as other such programs as graphics and word processors can read. Thus, when the user wishes to advance to a more complicated spreadsheet containing more built-in functions and formatting choices, the higher-level spreadsheet will be able to read the data from the VisiCalc sheet. Once loaded, the new spreadsheet can be manipulated as needed.

Multiplan, because of its additional formatting, cell naming, and spreadsheet linking capability, is a very popular spreadsheet. The method Multiplan uses to store a spreadsheet, however, does not readily permit data transfer from the spreadsheet into a graphics or word processing program. To make Multiplan data available to a graphics or a word processor, an IBM personal computer windowing program (permitting several programs to run simultaneously) must be used with a great amount of memory. No graphics capability for Multiplan exists for 8-bit microcomputers. Generally, if graphics must be generated or if the spreadsheet is larger than 18K bytes and must remain in one piece, VisiCalc is recommended.

For the occasional user, integrated spreadsheets may be cumbersome because of the many commands to remember and choices to make. Clearly, the experienced and frequent spreadsheet user should consider learning how to use an integrated package. The user must then decide whether the speed of Lotus 1-2-3 is more important than the additional features found in the Context MBA.

Lotus, however, has responded to user demands for additional power for the Lotus 1-2-3 by releasing an add-on pro-

gram in the spring of 1984, called Symphony. Ashton-Tate's Framework can also use Lotus 1-2-3 files. Most likely, Context Management Systems will soon revise its Context MBA, addressing the program's slow processing speeds.

Training Packages

A few training packages are available for using spreadsheets. Each package, specific to the spreadsheet and microcomputer, includes a manual and one or two disks. The average training package price is less than \$100.

The spreadsheets covered by the American Training Institute ATI Training Power manual include Lotus 1-2-3, SuperCalc³, SuperCalc, VisiCalc, and Perfect Calc. Cdex Corporation provides training packages for the Lotus 1-2-3, Multiplan, SuperCalc², and SuperCalc as well as two productivity-oriented training disks, entitled, "Managing Your Business Using Electronic Spreadsheets" and "Making Business Decisions Using Electronic Spreadsheets."

Generally, these training packages are high-quality products that divide instruction into 30-to-60-minute units. The user can easily schedule small blocks of time to learn or review a lesson.

Specialized Hardware

While the intent of this article is not to discuss the merits of various microcomputers, the user should be aware of several special types of microcomputers marketed for spreadsheet applications. The new lap-sized models include the NEC 8201 and the Tandy Radio Shack Model 100. These machines cost less than \$1,000 with all accessories, have the software on ROM chips installed inside, and provide up to 32K bytes of user memory. The Workslate from the Advanced Information Products Division of Convergent Technologies Inc is a dedicated lap computer with 16K bytes of memory for spreadsheets only, with function keys to speed throughput. All of these microcomputers can support printers, and the built-in telecommunications capability enables the traveler to transfer complicated spreadsheets or documents by telephone to the office microcomputer for further editing and processing.

IMPLEMENTATION

Some important consideration must be given to the intended

use of microcomputers and spreadsheets, especially in a large organization with several operating units.

Old Data. Unless data is downloaded from the central computer each time it is needed for a spreadsheet, the user will be working with old data. A policy is needed to ensure that the data is discarded and refreshed if current data is desired for the application, or that the user knowingly works with old data.

Spreadsheet Design Standards. Coordination of assignments is recommended to avoid duplicity amount organizational units. If different groups exchange spreadsheets or create summary reports from multiple spreadsheets, standard layouts must be used. Strategies and procedures should be developed to ensure that managers do not have to analyze different layouts of similar data.

Security and Control. Procedures for distributed microcomputer use are similar to those already in effect; however, they must be extended to cover the portability of diskettes.

Training. Formal training is necessary to achieve the optimum results of this technology. Training packages such as the Cdex CDEX[™] or the American Training Institute ATI Training Power manual should be used as a follow-up to the formal training and as a refresher course.

Reports. The type of report, frequency of use, and degree of difficulty should guide the choice of applications. For those with large amounts of data, the mainframe DBMS can be coupled to the spreadsheet package.

Naming Standards. The user should develop a scheme for naming the completed spreadsheets. The first few are never a problem; thirty files later, cryptic names will not mean very much.

Backup and Recovery. Establish procedures to be followed by all personnel for backing up the document diskettes. Allow no exceptions, or data will be lost. Most diskettes have a useful life of 40 to 60 hours of rotation. The standards should specify how often to replace the diskettes, and an adequate inventory of fresh diskettes should be maintained.

DECISION SUPPORT Compatibility Matrix

207.0025.001

Vendor/Package	Compatible Operating Systems														Others
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	
Access Technology Supercomp Twenty														•	P/OS
Addison-Wesley Publishing Micro-DSS/Analysis Micro-DSS/Finance Micro-DYNAMO	• • •						• •								
Alpha Software ESP							•								
Apple Computer Senior Analyst	•														
ARTSCI MagiCalc	•														
Business Planning Systems PLAN 80			•				•								
Business Software Pty PLANFIN PROFIN			• •				• •								
Chang Laboratories MicroPlan ProfitPlan			• •	•			•		•						
Computer Marketing Services CALC RESULT PLUS															Commodore DOS
Comshare Micro W Distributed TARGET Financial Modeling TARGET PlannerCalc			• •	•			• •		•						
Cyberia Business Management Series															Commodore DOS
Datamension Report Manager AV							•		•						
Desktop Computer Software GRAPH 'N' CALC							•								
EPS MicroFCS							•		•						
Execucom Systems IFPS/Personal							•		•						

Vendor/Package	Compatible Operating Systems														Others
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	
Executec Execu/MODEL				•		•				•					
Executive Software Decision Analyst			•	•		•				•					
Ferox Microsystems ENCORE!						•									
Groundstar Software Financial Analysis											•				AMOS
Haba Systems GRAPH 'N' CALC	•														
Horizon Software Systems Horizon Spreadsheet														•	
IdeaWare The Idea Processor							•								
Information Access The Financial Planner			•			•									
Instant Software EasyCalc													•		
Interactive Systems COMPU-SHEET															PICK
ITSoftware CalcIT							•								
L & L Products SPREAD							•								
Living Videotext ThinkTank	•						•								Apple Macintosh
MicroPro International CalcStar PlanStar			•				• •			•					
Microsoft Multi-Tool Budget Multiplan	• •		•				• •			• •					• Apple Macintosh
Midwest Computer Center FINANCIAL ANALYSIS			•												

Vendor/Package	Compatible Operating Systems														Others
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	
P-E Consulting Group Micro Finesse	•														
Peachtree Software PeachCalc			•				•			•					
Perfect Software Perfect Calc			•				•			•					
Phase One Systems Masterplan											•				
Pyramid Data Number Cruncher II							•			•					
Saturn Systems SATURN-CALC															P/OS
Smoke Signal Broadcasting TMMP/Calc															OS/9
Sofstar Business Planning Tool (BPT)							•								
Software Arts The VisiCalc Package TK!Solver	• •						•			•					Apple ProDOS Apple Macintosh
Software Products International Logicalc Procalc													• •		

Vendor/Package	Compatible Operating Systems															Others	
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	UNIX		XENIX
Sorcim/IUS EasyPlanner SuperCalc SuperCalc2			•				• •										
Structured Systems Group Magic Worksheet			•		•		•	•	•								
Supersoft Scratch Pad Scratch Pad Plus Scratch Pad with Voice Drive			•				• • •			• •							
Systems Plus The Wedge			•					•									
T/MAKER T/MAKER III			•		•		•			•							
Teknowledge M.1																	Apple ProDOS
TeleVideo Systems TeleSolutions II																	MmmOST
Timberline Systems Medallion Spreadsheet							•			•				•			
UniCalc UniCalc/L																•	
Vector Graphic Execuplan II																	Vector Graphic computers
Via Computer Micro/PROPHIT							•										
VisiCorp Desktop/PLAN FlashCalc VisiCalc VisiCalc Advanced Version VisiCalc Business Forecasting Model VisiCalc IV	• • • •						• • • •						•				Apple ProDOS Numerous microcomputers
Wicat Systems UltraCalc																	MCS

DECISION SUPPORT

Features Matrix

207.0030.001

Vendor/Package	System Capabilities																Model Size
	Accounting Oriented	Conditional Branching Consolidation	External File Access	Financial Functions	Goal Seeking	Graphics	Language Oriented	Mainframe Access	Outline Processing	Sorting	Split-Screen Editing	Spreadsheet Oriented	Statistical Analysis	Text Editing/WP	What-If Analysis		
Access Technology Supercomp Twenty			•		•		•				•	•	•		•	1,000 col × 1,000 rows	
Addison-Wesley Publishing Micro-DSS/Analysis						•	•					•	•			Limited by disk storage	
Micro-DSS/Finance		•	•		•	•	•	•						•		200 col × 100 rows	
Micro-DYNAMO							•	•					•		•	100 variables	
Alpha Software ESP				•	•	•							•		•	1,000 variables	
Apple Computer Senior Analyst			•		•			•					•		•	—	
ARTSCI MagiCalc			•	•	•	•						•	•	•	•	Varies	
Business Planning Systems PLAN 80		•	•		•			•						•		—	
Business Software Pty PLANFIN	•		•	•								•	•		•	—	
PROFIN				•								•	•		•	—	
Chang Laboratories MicroPlan		•	•	•	•							•	•	•	•	RAM or disk based	
ProfitPlan	•				•							•	•		•	1,100 cells	
Computer Marketing Services CALC RESULT PLUS		•					•					•	•		•	64 col × 254 rows × 32 pages	
Comshare Micro W Distributed		•	•	•	•			•	•				•	•	•	—	
TARGET Financial Modeling		•	•	•	•			•				•	•	•	•	999 col × 5,000 rows	
TARGET PlannerCalc			•		•							•	•		•	128 col × 512 rows	
Cyberia Business Management Series					•									•		NA	
Datamension Report Manager AV			•	•	•							•	•	•	•	16 million cells	
Desktop Computer Software GRAPH 'N' CALC				•	•		•					•	•	•	•	100 col × 10 rows	
EPS MicroFCS		•	•	•	•			•	•					•		•	
Execucom Systems IFPS/Personal		•	•	•	•			•	•			•		•	•	•	

Vendor/Package	System Capabilities															Model Size	
	Accounting Oriented	Conditional Branching	Consolidation	External File Access	Financial Functions	Goal Seeking	Graphics	Language Oriented	Mainframe Access	Outline Processing	Sorting	Split-Screen Editing	Spreadsheet Oriented	Statistical Analysis	Text Editing/WP		What-If Analysis
Executec Execu/MODEL		•		•	•							•	•		•	•	64 col × 255 rows
Executive Software Decision Analyst								•									—
Ferox Microsystems ENCORE!			•		•		•	•				•	•	•		•	32,000 cells
Groundstar Software Financial Analysis	•			•									•				—
Haba Systems GRAPH 'N' CALC				•	•		•					•	•	•		•	100 col × 10 rows
Horizon Software Systems Horizon Spreadsheet				•	•	•						•	•	•	•	•	256 col × 256 rows
IdeaWare The Idea Processor										•	•				•		NA
Information Access The Financial Planner				•	•	•	•	•					•			•	—
Instant Software EasyCalc				•									•	•	•	•	99 col × 99 rows
Interactive Systems COMPU-SHEET			•	•	•							•	•			•	—
ITSoftware CalcIT				•	•								•				255 pages × 255 col × 255 rows
L & L Products SPREAD			•	•		•	•	•							•	•	—
Living Videotext ThinkTank										•					•		—
MicroPro International CalcStar			•										•	•	•	•	127 col × 255 rows
PlanStar			•	•	•			•					•	•	•	•	32,000 cells with up to 1,000 spreadsheets
Microsoft Multi-Tool Budget Multiplan	•			•								•	•	•	•	•	NA 65 col × 255 rows
Midwest Computer Center FINANCIAL ANALYSIS	•			•													—

Vendor/Package	System Capabilities															Model Size	
	Accounting Oriented	Conditional Branching	Consolidation	External File Access	Financial Functions	Goal Seeking	Graphics	Language Oriented	Mainframe Access	Outline Processing	Sorting	Split-Screen Editing	Spreadsheet Oriented	Statistical Analysis	Text Editing/WP		What-If Analysis
P-E Consulting Group Micro Finesse							•						•	•		•	—
Peachtree Software PeachCalc			•	•								•	•	•	•	•	63 col × 254 rows
Pefect Software PerfectCalc			•	•								•	•	•	•	•	365 col × 256 rows
Phase One Systems Masterplan		•	•					•				•			•	•	56 col × unlimited rows
Pyramid Data Number Cruncher II													•			•	—
Saturn Systems SATURN-CALC					•						•	•	•			•	16,000 cells
Smoke Signal Broadcasting TMMP/Calc	•			•									•			•	—
Sofstar Business Planning Tool (BPT)	•			•									•			•	—
Software Arts The VisiCalc Package TK!Solver			•	•	•	•		•				•	•	•		•	65 col × 255 rows —
Software Products International Logicalc Procalc		•	•			•	•					•	•	•		•	— 50,000 entries

Vendor/Package	System Capabilities															Model Size	
	Accounting Oriented	Conditional Branching	Consolidation	External File Access	Financial Functions	Goal Seeking	Graphics	Language Oriented	Mainframe Access	Outline Processing	Sorting	Split-Screen Editing	Spreadsheet Oriented	Statistical Analysis	Text Editing/WP		What-If Analysis
Sorcim/IUS EasyPlanner		•	•		•			•						•	•	•	255 col x 256 rows
SuperCalc			•								•	•	•	•		•	—
SuperCalc2			•								•	•	•	•		•	—
Structured Systems Group Magic Worksheet			•	•								•	•		•	•	65 col x 256 rows
Supersoft Scratch Pad		•	•	•								•	•			•	999 col x 999 rows
Scratch Pad Plus		•	•	•	•						•	•	•			•	999 col x 999 rows
Scratch Pad with Voice Drive		•	•	•								•	•			•	999 col x 999 rows
Systems Plus The Wedge												•	•	•	•	•	52 col x 400 rows
T/MAKER T/MAKER III			•	•							•		•	•	•		44 col
Teknowledge M.1								•									—
TeleVideo Systems TeleSolutions II			•				•					•	•	•	•		1,000 cells
Timberline Systems Medallion Spreadsheet	•		•	•								•	•	•		•	100 col x 200 rows
UniCalc UniCalc/L																	
Vector Graphic Execuplan II		•	•								•	•	•	•		•	—
Via Computer Micro/PROPHIT		•	•			•	•	•	•					•		•	Unlimited
VisiCorp Desktop/PLAN		•	•				•	•								•	Varies
FlashCalc				•	•								•			•	256 col x 65 rows
VisiCalc			•	•	•							•	•	•		•	63 col x 254 rows
VisiCalc Advanced Version		•	•	•								•	•	•		•	63 col x 254 rows
VisiCalc Business Forecasting Model			•									•	•	•		•	—
VisiCalc IV		•	•	•			•				•	•	•	•		•	63 col x 254 rows
Wicat Systems UltraCalc				•								•	•	•			—

DECISION SUPPORT

Product Summaries

ACCESS TECHNOLOGY

6 Pleasant St
South Natick MA 01760

(617) 655-9191

► Supercomp Twenty

A forecasting and planning package

Price \$400–\$500 purchase

Environment Computers: Digital Equipment Professional, UNIX-based microcomputers. Main storage: 64K bytes. Source language: C.

Capabilities Supports up to 1,000 columns and 1,000 rows. Retains copy of original when changes are entered. Enables users to set up libraries of reusable sub-models and command procedures. Selects cell groups from noncontiguous areas. Stores strings of commands.

Description Supercomp Twenty handles tasks ranging from preparing simple budgets and schedules to integrating business plans. Supercomp Twenty also provides statistical functions and limited graphics capabilities for more sophisticated planning. Models written on the microcomputer version of Supercomp Twenty are compatible with minicomputer and mainframe versions of the program.

Compatibility Matrix: 207.0025.001
Features Matrix: 207.0030.001

ADDISON-WESLEY PUBLISHING

Jacob Way
Reading MA 01867

(617) 944-3700

► Micro-DSS/Analysis

An analysis tool for Apple systems

Price \$495 purchase

Environment Computers: Apple II and III, IBM Personal Computer and Personal Computer XT. Main storage: 64K bytes. Source language: Pascal.

Capabilities Data preparation and reporting. Statistics. Graphics. Data base administration. Utilities. Reports of sales units, advertising costs, research and development, and prices. Calculation of average, variance, and range figures. Demographics. Cross tabulation. Multivariate analysis. Goal seeking.

Description Micro-DSS/Analysis allows users to create tables of 200 rows by 100 columns (Apple version) or 500 rows by 100 columns (IBM Personal Computer version), create new combinations, explore relationships, answer specific questions, and measure the impact of real or potential changes. In addition, time-series

and statistical questionnaire analyses can be performed.

Compatibility Matrix: 207.0025.001
Features Matrix: 207.0030.001

ADDISON-WESLEY PUBLISHING

Jacob Way
Reading MA 01867

(617) 944-3700

► Micro-DSS/Finance

A financial modeling and reporting package

Price Purchase: \$795 (Apple microcomputers); \$995 (IBM Personal Computer)

Environment Computers: Apple II, II+, IIe, and III; IBM Personal Computer and Personal Computer XT. Main storage: 64K bytes. Source language: Pascal.

Capabilities Graphics. Spreadsheet matrix size dependent on total number of rows by columns rather than on specified maximum number of rows or columns. Supports both RAM- and disk-based (virtual memory) models. Models can have as many as 32,000 cells. Logic files used to specify matrix relationships. If-then logic. Worksheet and Dataview commands support interactive construction of models. Performs goal seeking. IBM Personal Computer version allows extracts of separate spreadsheets to be added, multiplied, divided, or overlaid in a single spreadsheet.

Description Micro-DSS/Finance is a command-oriented financial modeling and graphics system that provides forecasting, budgeting, and financial planning. Features include an English modeling language, tracking of all types of depreciation, net present value, internal rate of return, loan amortization, tax-loss carry forward, payback, and tax-table lookup. The system also provides color pie, line, and bar graphs, a report generator, consolidation, goal seeking, solution of simultaneous equations, what-if analysis, sensitivity analysis, conditional logic, prompting, menu generation, automation files, data-input worksheet generation, a built-in editor, and a data manager.

A special application version of Micro-DSS/Finance allows users to run models but not change or create them.

Compatibility Matrix: 207.0025.001
Features Matrix: 207.0030.001

ADDISON-WESLEY PUBLISHING

Jacob Way
Reading MA 01867

(617) 944-3700

► Micro-DYNAMO

Computer simulation and modeling

Price Purchase: \$245 (Apple); \$395 (IBM)

Environment Computers: Apple II, II+, IIe, and III; IBM Personal Computer and Personal Computer XT. Main storage: 48K bytes. Source language: Pascal.

Capabilities Expresses models in algebraic relationships without data processing terms. Accommodates up to 100 variables. Either high-resolution color graphics or printed plots. A compiled model may be saved and rerun many times with parameter changes.

Description Micro-DYNAMO is a computer program that compiles and simulates models of business, social, economic, biological, and engineering systems. Users create models in the DYNAMO language and specify variables to be printed and plotted without complicated format statements: Micro-DYNAMO translates the model into its internal code and interprets this code to produce both tabular and plotted results. The plots can be either displayed in color or printed (in one color) on a standard printer.

Compatibility Matrix: 207.0025.001
Features Matrix: 207.0030.001

ALPHA SOFTWARE

30 B St
Burlington MA 01803

(617) 229-2924

► ESP

An econometric modeling and forecasting program

Price \$795 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT. Main storage: 256K bytes. Source language: not specified.

Capabilities Econometric modeling. Statistical analysis. Time-series manipulation. Supports scalar variables and matrices. Reads and writes any data file in ASCII format or Data Interchange Format (DIF). Online HELP facility. Function-key driven. Supports the Intel 8087 math coprocessor.

Description ESP (Econometric Software Package) allows econometric and statistical analysis to be performed on an IBM Personal Computer. The interactive, screen-oriented program enables users to collect, store, and display historical data; perform a wide range of statistical computations; and apply regression analysis techniques to estimate models and generate forecasts. Among the functions available in ESP are:

- Data manipulation—Algebraic transformation of data, use of subscripting notation, seasonal adjust-

ment, random-number generation, and exponential trending

- Statistical functions—Mean, standard deviation, coefficient of variation, and correlation and covariance matrices
- Regression techniques—Ordinary least squares, two-stage least squares, autocorrelation correction by Cochrane-Orcutt or Hildreth-Lu techniques, and Almon (polynomial) distributed lags
- Forecasting—Static and dynamic forecasting of single-equation regression models and Box-Jenkins time-series models; nonlinear estimation; and three-stage least squares

ESP can scan up to 10 data files, each containing up to 1,000 variables. Data can be entered manually, transferred from standard ASCII or DIF files, or downloaded from Chase Econometric data bases.

Compatibility Matrix: 207.0025.001
Features Matrix: 207.0030.001

APPLE COMPUTER

20525 Mariani Ave
Cupertino CA 95014

(408) 996-1010

► Senior Analyst

A business planning tool

Price \$225 purchase

Environment Computers: Apple II+. Main storage: 48K bytes. Source language: not specified.

Capabilities Performs calculations. Displays values. Reformats portions according to necessary changes without affecting unchanged values. Handles numbers up to ± 100 billion. Headers can be up to 60 characters long.

Description Senior Analyst, a planning utility for business, can create budgets, forecasts, or any type of model needed to analyze data. The system provides seven modes: COL (column), ROW (row), GLB (global definitions), VAL (value), PRT (print), DSK (disk), and XFR (transfer). Standard functions include CNT, which gives the number of items in a list; SUM, which gives the total of values in a list; MAX, which gives the largest value in a list; MIN, which gives the smallest value in a list; AVG, which gives the average of a list; PCT, which gives the percent; and INT, which gives the integer portion of a value. In addition, the system can provide the following advanced functions: ALLC (proportions), LKUP (looks up values on a particular page), CGRW (compound growth), NPVL (net present value), FCST (linear regression forecast), SODD (sum of digits depreciation), STLD (straight-line depreciation), and DBLD (declining-balance depreciation).

Compatibility Matrix: 207.0025.001
Features Matrix: 207.0030.001



ARTSCI

5547 Satsuma Ave
North Hollywood CA 91601

(213) 985-2922

► MagiCalc

An electronic spreadsheet

Price \$150 purchase

Environment Computers: Apple II, II+, and IIe. Main storage: 64K bytes. Source language: Assembly.

Capabilities Menu driven. Trigonometric and logarithmic functions. Present value. Computes means and standard deviation. Conditional if-then logic. Allows each spreadsheet to access elements from another. Models can be edited by the ARTSCI Magic Window word processor. Interfaces to other programs through Data Interchange Format (DIF) files.

Description MagiCalc supports 70-column screen displays on an unmodified Apple microcomputer and 80-column displays on Apple microcomputers using an 80-column adapter card. MagiCalc addresses up to 512K bytes of additional memory on cards inserted in the Apple peripheral ports. It features variable column widths, a numbered disk-file directory, invisible matrix cells to protect sensitive data, and a tab function for fast data entry.

Compatibility Matrix: 207.0025.001
Features Matrix: 207.0030.001

BUSINESS PLANNING SYSTEMS

Two N State St
Dover DE 19901

(302) 674-5500

► PLAN 80

A planning and analysis tool

Price \$295 purchase

Environment Computers: IBM Personal Computer; microcomputers running under CP/M. Main storage: not specified. Source language: Pascal.

Capabilities Profit planning. Cash management. Sales projection and analysis. Acquisition analysis. Real estate analysis. Market simulation. Marketing strategy development. Lease versus purchase analysis. Capital project evaluation. Balance sheet projection. Consolidations. Productivity analysis. Cost center budgeting. Purchase price analysis. Cost and variance analysis. Research and development project evaluation. Tax planning. Product line analysis. Energy accounting. Cost estimating.

Description PLAN 80 is a planning and analysis tool that provides financial modeling, mathematical functions, tables and graphs from the same data, and reports on all types of statistics. Built-in financial functions include accelerated cost recovery, net present value, and internal rate of return calculations. Assumptions can be stated in English, simple rules for calculations can be

used, results can be specified by each user, and output from one model can be used as input for another. Lower-level master sheets can be easily consolidated into higher-level spreadsheets. The use of if-then conditional functions allows the construction of complex financial models. In addition, the system performs what-if analysis that can aid in evaluating alternatives, making decisions, and identifying strategies to achieve short- and long-term goals.

Compatibility Matrix: 207.0025.001
Features Matrix: 207.0030.001

BUSINESS SOFTWARE PTY LTD

10 Help St
Chatswood NSW 2067
Australia

(02) 419-6077

12021 Wilshire Blvd
Suite 194
Los Angeles CA 90025

► PLANFIN

A menu-driven forecasting and budgeting package

Price \$195 purchase

Environment Computers: microcomputers running under CP/M, MS-DOS, or PC DOS. Main storage: 64K bytes. Source language: Microsoft BASIC Version 5.2.

Capabilities Produces forecasts, budgets, and discounted cash flows from input of revenues, costs, taxes, depreciation, and interest. Analyzes production, sales, pricing, financing, inflation, and foreign exchange movements. Accepts data in years, quarters, or months. Produces operating income and net income statements. Consolidates separate divisional budgets.

Description PLANFIN enables users to project product revenues based on selling prices and quantities for each product. A quantity can be entered for the first period with an annual percentage growth, or a specific quantity can be entered for each period. Cost can be entered as a cost per unit, percentage of revenue or some other cost, fixed cost per period, or specific cost for each period. A Help facility is available for novices. Case reports can be stored on disk for further analysis. PLANFIN reports interface with Microsoft Multiplan, VisiCorp VisiCalc, and Sorcim SuperCalc files as well as with files from other programs that read Data Interchange Format (DIF) files. PLANFIN requires 240K bytes of disk storage.

Compatibility Matrix: 207.0025.001
Features Matrix: 207.0030.001

BUSINESS SOFTWARE PTY LTD

10 Help St
Chatswood NSW 2067
Australia

(02) 419-6077

12021 Wilshire Blvd
Suite 194
Los Angeles CA 90025

► PROFIN

A menu-driven financial analysis package

Price \$295 purchase

Environment Computers: numerous microcomputers. Main storage: 64K bytes. Source language: Microsoft BASIC Version 5.2.

Capabilities Produces forecasts, budgets, discounted cash flows, return on investment, capital expenditure analyses, and balance sheets. Enables users to experiment with sales figures, pricing, financing, inflation, foreign exchange movements, and capital costs. Assists users in formatting reports.

Description PROFIN guides the user through the entry of product revenues, costs, capital expenditures, equity capital, loans, and taxes. A Help facility assists novices. Case reports can be stored on disk for further analysis. The series of questions and answers used to set up the report can also be stored. PROFIN reports interface with Microsoft Multiplan, VisiCorp VisiCalc, and Sorcim SuperCalc spreadsheet files as well as with files from other programs that read Data Interchange Format (DIF) files. PROFIN requires 240K bytes of disk storage.

Compatibility Matrix: 207.0025.001
Features Matrix: 207.0030.001

CHANG LABORATORIES

5300 Stevens Creek Blvd
Suite 200
San Jose CA 95129

(408) 246-8020

► MicroPlan

An electronic worksheet package

Price \$495 purchase (basic pkg), \$295 purchase (optional consolidation module)

Environment Computers: IBM Personal Computer and Personal Computer XT; microcomputers running under CP/M, CP/M-86, or MS-DOS. Main storage: not specified. Source language: not specified.

Capabilities Solves financial planning problems. Menu driven. Depreciation calculations. Loan analysis. Internal rates of return. Tax computation. Balance-forward operations. Rolling forecasts. Multiple table consolidations. Variance analysis. If-then conditional calculations. Interfaces to Chang Laboratories MemoPlan memo writer, GraphPlan business graphics system, and many general ledger programs.

Description MicroPlan is an electronic worksheet program designed to perform financial modeling and what-if analysis, and to generate full financial reports. The system provides a consolidation module that can handle three kinds of multiple table consolidations and automatically analyze variances. Data can be processed from accounting package files, and MicroPlan files can be edited and enhanced with word processing packages. A file compatibility module that translates CP/M or CP/M-86 files created with other application programs to MicroPlan format (and vice versa) is also provided. MicroPlan can display menus for table formatting, data entry, math computation, financial computation, and report generation. In addition, MicroPlan allows users to apply simple commands to build analytical models. The model is built once and stored and can then be called by pushing the appropriate key; MicroPlan then prompts the end user for the required input.

Compatibility Matrix: 207.0025.001
Features Matrix: 207.0030.001

CHANG LABORATORIES

5300 Stevens Creek Blvd
Suite 200
San Jose CA 95129

(408) 246-8020

► ProfitPlan

An electronic spreadsheet program

Price Vendor declined to provide

Environment Computers: microcomputers running under CP/M. Main storage: 64K bytes. Source language: not specified.

Capabilities Preformatted for use in financial forecasting. Models can contain up to 1,100 cells, in any combination of rows and columns. Upward compatible with MicroPlan.

Description ProfitPlan is a spreadsheet program with built-in financial functions that enhance its usefulness in break-even analysis. It is provided with a pre-programmed spreadsheet template.

Compatibility Matrix: 207.0025.001
Features Matrix: 207.0030.001



COMPUTER MARKETING SERVICES

26 Springdale Rd
Cherry Hill NJ 08003

(609) 795-9480
(800) 222-0585

► CALC RESULT

A spreadsheet modeling program

Price Purchase: \$150 (Commodore 64), \$200 (Commodore CBM 8032)

Environment Computers: Commodore 64 and CBM 8032. Main storage: 32K to 64K bytes. Source language: not specified.

Capabilities Three-dimensional spreadsheet modeling with 32 pages of 64 columns and 254 rows. Boolean and logical if-then-else operations available for each cell. Replicates, copies, and moves commands. Variable global column width. Protects sections of the spreadsheet from alteration. Screen splits into four windows. Online help function. Graphics on screen and printer. Color-coordinated cells used for clarity.

Description CALC RESULT is a powerful spreadsheet program for Commodore microcomputers. Up to 32 worksheet pages can be combined to create a three-dimensional spreadsheet. The split-screen window feature can be used to view four worksheet pages simultaneously.

Compatibility Matrix: 207.0025.001
Features Matrix: 207.0030.001

COMSHARE

3001 S State St
Ann Arbor MI 48104

(313) 994-4800

► Micro W Distributed

A distributed decision support system

Price Available only as part of System W Distributed

Environment Computers: IBM Personal Computer operating under CP/M-86 or PC DOS. Main storage: not specified. Source language: Pascal.

Capabilities Two-dimensional spreadsheet analysis and modeling. Inserts, deletes, moves, and copies rows and columns. Views and prints data from the microcomputer. Data transmission to and from a remote mainframe.

Description Micro W is a distributed decision support program that combines the flexibility of microcomputers with the power of mainframes. Models developed independently under Micro W on a microcomputer are fully compatible with larger plans running under the mainframe version of the Comshare System W. Any part of a model can be transmitted to the remote mainframe for consolidation in larger models. Data can also be downloaded from the mainframe for microcomputer-based analysis.

Compatibility Matrix: 207.0025.001
Features Matrix: 207.0030.001

COMSHARE

Target Software Div
5901 B Peachtree Dunwoody Rd
Suite 275
Atlanta GA 30328

(404) 391-9012

► TARGET Financial Modeling

A decision support system

Price \$325 purchase

Environment Computers: microcomputers running under CP/M, CP/M-86, PC DOS, or MS-DOS. Main storage: 64K bytes. Source language: not specified.

Capabilities Financial modeling using either a procedural program of 50,000 lines or a spreadsheet matrix of 999 columns by 5,000 rows. Conditional and boolean operators. Built-in financial functions, including net present value and, on 16-bit systems, internal rates of return. What-if command allows projections and forecasts to be recalculated interactively without affecting absolute data. Formatting functions include headings, footings, variable column widths, and split-screen editing. Reports can be edited on many word processors.

Description TARGET Financial Modeling is a sophisticated financial analysis system that allows models and tables to be constructed as either spreadsheet matrices or procedural step programs. The program simultaneously maintains both formats for each financial model, allowing users greater flexibility in approaching a problem. Models can be designed to be run by support personnel. All models written under TARGET Planner-Calc are compatible with TARGET Financial Modeling.

Compatibility Matrix: 207.0025.001
Features Matrix: 207.0030.001

COMSHARE

Target Software Div
5901 B Peachtree Dunwoody Rd
Suite 275
Atlanta GA 30328

(404) 391-9012

► TARGET PlannerCalc

An electronic spreadsheet program

Price \$99 purchase

Environment Computers: microcomputers running under CP/M. Main storage: 64K bytes. Source language: Assembly.

Capabilities Spreadsheet modeling using a matrix of 128 columns by 512 rows. Variable column widths. Split-screen editing. Built-in What-if command for easy analysis. Financial functions, including net present value. Help key. Conditional and boolean operators.

Description TARGET PlannerCalc is a financial planning tool that allows procedures to be constructed in an English-like language using conventional mathematical logic. Cells, rows, and columns can be given variable names, which can then be used in constructing spreadsheet models. Execution of a model can be performed interactively or deferred for later use. An input command that can be included in spreadsheet models enables TARGET PlannerCalc to prompt the end user for necessary data. Models developed under TARGET PlannerCalc are compatible with Comshare's TARGET Financial Modeling system.

Compatibility Matrix: 207.0025.001

Features Matrix: 207.0030.001

CYBERIA INC

PO Box 784
Ames IA 50010

(800) 247-3900
(515) 292-7634

► Business Manager Series

A series of four programs for financial planning

Price \$30 purchase/program

Environment Computers: Commodore 64. Main storage: not specified. Source language: not specified.

Capabilities General business analysis. Loan analysis with amortization and calculation of balloon payments. Investment analysis with present and future value functions. Business statistics.

Description Each of the four programs in the Business Manager Series covers an area pertinent to the decisions necessary in the routine operations of many businesses. The General Business volume calculates economic order and production quantities, provides payroll breakdowns, and analyzes marketing options. The Loan Analysis volume performs amortizations and determines rates of return and financial ratios. The Investment Analysis volume calculates future, present, and annuity values of various investment options. The Business Statistics volume includes a variety of statistical

calculations, such as T-Test, Chi-Square, Non-Linear correlation and regression, and the Mann-Whitney U-Test.

Compatibility Matrix: 207.0025.001

Features Matrix: 207.0030.001

DATAMENSION

615 Academy Dr
Northbrook IL 60062

(312) 564-5060

► Report Manager AV

An advanced spreadsheet program

Price \$495 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT, Texas Instruments Professional Computer, and other microcomputers running under MS-DOS. Main storage: 128K bytes. Source language: Assembly.

Capabilities Spreadsheet modeling in a three-dimensional worksheet. Models can contain up to 16 million cells. Report consolidations. Supports keyboard macrofiles and autoexec programs. Uses color text within models. Preprogrammed financial and statistical functions.

Description Report Manager AV supports three-dimensional spreadsheet models and allows users to edit different sections of models in up to four on-screen windows. The autoexec and keyboard macrofile functions of Report Manager AV enable users to construct self-prompting models for use by lay personnel. All spreadsheet models are stored in standard ASCII format, enabling models to be edited by most WP programs.

Compatibility Matrix: 207.0025.001

Features Matrix: 207.0030.001



DESKTOP COMPUTER SOFTWARE

75 Pasatiempo Dr
Santa Cruz CA 95060

(408) 458-9095

► GRAPH 'N' CALC

A decision support system

Price \$125 purchase (\$50 for optional plotter support)

Environment Computers: IBM Personal Computer and Personal Computer XT. Main storage: 64K bytes. Source language: Microsoft BASIC.

Capabilities Multiple linear regressions. Net present value, internal rate of return, and exponential smoothing. Line charts. Pie charts. Side-by-side and stacked-bar charts. Interfaces with other spreadsheet programs to store and retrieve files.

Description GRAPH 'N' CALC integrates spreadsheet capabilities with high-resolution color graphics. The graphics can be organized in a slide-show format and retrieved from diskette in timed sequence or on an individually keyed basis.

Compatibility Matrix: 207.0025.001

Features Matrix: 207.0030.001

EPS

1 Industrial Dr
Windham NH 03087

(603) 898-1800

► MicroFCS

A decision support program

Price \$2,000 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT, Digital Equipment Rainbow 100, Hewlett-Packard HP-150, Wang Professional Computer, COMPAQ Computer, and Victor microcomputers running under MS-DOS. Main storage: 192K bytes. Source language: C.

Capabilities What-if analysis. Consolidation. Report generation. Transposition of rows to columns and vice versa. Password protection. Color graphics. Library of 60 precoded business and financial functions. User-defined functions and command files. On-screen HELP.

Description MicroFCS is a mainframe-style decision support system for microcomputers. The syntax of the MicroFCS modeling language is compatible with its mainframe counterpart, FCS-EPS, and models and data developed under MicroFCS can be run on mainframes without modification. MicroFCS features both asynchronous and bisynchronous file transfer capabilities, allowing it to be used in distributed decision support environments.

Compatibility Matrix: 207.0025.001

Features Matrix: 207.0030.001

EXECUCOM SYSTEMS

3410 Far West Blvd
Austin TX 78731

(512) 346-4980

► IFPS/Personal

A nonprocedural modeling language for decision support applications

Price \$1,500 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT, Texas Instruments Professional Computer, and Sperry Personal Computer. Main storage: not specified. Source language: not specified.

Capabilities Problem-solving model construction. Command files. Simultaneous viewing of models on a split window. Full-screen data editing. Downloads information from a remote mainframe. Transfers models created on a microcomputer for consolidation on remote mainframe. Reads and writes Lotus worksheet files. Graphics. Supports various pen plotters.

Description The IFPS/Personal modeling language, including all commands and processes, is similar to that used in the Execucom Systems mainframe-level IFPS. Thus, most models created with IFPS/Personal can be run on mainframe computers to construct comprehensive corporate-level reports. Microcomputers using IFPS/Personal with the AST Irma communications interface can easily access data stored on remote mainframes.

Compatibility Matrix: 207.0025.001

Features Matrix: 207.0030.001

EXECUTEC

12200 Park Central Dr
Suite 470
Dallas TX 75251

(214) 239-8080

► Execu/MODEL

A spreadsheet program for financial modeling

Price Bundled as part of the SeriesOnePlus

Environment Computers: microcomputers running under PC DOS, MS-DOS, or CP/M-86. Main storage: 128K-256K bytes. Source language: C.

Capabilities Spreadsheet modeling with a matrix of 64 columns by 255 rows. Supports variable column width and horizontal and vertical windows. Conditional if-then and boolean operators. Financial functions, including sum, count, minimum, maximum, net present value, and logarithms. Extracts data from the Execu/FILE electronic filing system. Models can be passed to Execu/WRITER and Execu/REPORTER for incorporation in documents and reports.

Description As part of SeriesOnePlus, Execu/MODEL operates under the control of Execu/BUS and is fully integrated with other Executec products. Executec offers a set of sophisticated bank management and financial analysis models for use with Execu/MODEL and SeriesOnePlus. These include IRA/CD Analysis, Fixed Asset Accounting, Safe Deposit Accounting, and Asset/Liability Modeling.

Compatibility Matrix: 207.0025.002
Features Matrix: 207.0030.002

EXECUTIVE SOFTWARE

Bay St
Shanty Bay Ontario L0L2L0
Canada

(705) 722-3373

► Decision Analyst

An executive decision support tool

Price \$140 purchase

Environment Computers: Microcomputers running under CP/M, CP/M-86, MS-DOS, or PC DOS. Main storage: 56K bytes (CP/M), 96K bytes (MS-DOS). Source language: CBASIC.

Capabilities Provides automated techniques for making business decisions. Report writer. Automatically records all input on disk. On line HELP.

Description Decision Analyst is a management tool to aid in planning expansion of personnel or working capital, allocation of company resources, introduction of new products or development of marketing strategies.

Compatibility Matrix: 207.0025.002
Features Matrix: 207.0030.002

FEROX MICROSYSTEMS

Sixth Floor
1701 N Ft Myer Dr
Arlington VA 22209

(703) 841-0800

► ENCORE!

A desktop decision support system

Price \$695 purchase (\$95 for disk support)

Environment Computers: IBM Personal Computer and Personal Computer XT, COMPAQ Computer, Columbia, and other PC DOS-compatible microcomputers. Main storage: 256K bytes. Source language: not specified.

Capabilities Financial forecasting and reporting. Cash flow forecasting. Investment analysis. Budgeting. Strategic planning. Report and model consolidation. Corporate modeling. Formal report writer. Graphics with bar, scatter, and Gantt charts. Optional developer's tool kit. Full-screen editing. Optional support of disk drives.

Description ENCORE! is an interactive spreadsheet enhanced with the extended capabilities of a comprehensive English-based financial planning language and decision support system. The menu-driven spreadsheet contains 32,000 cells and over 144 multiwindows. Its mathematical function library includes U.S. tax tables; all types of depreciation, including Accelerated Cost Recovery; loan amortization; net present value; and internal rates of return. ENCORE! performs statistical and regression analysis, unlimited hierarchical consolidation, and simultaneous equations.

Compatibility Matrix: 207.0025.002
Features Matrix: 207.0030.002



GROUNDSTAR SOFTWARE2160 41st Ave
Capitola CA 95010

(408) 462-5250

► Financial Analysis

A financial forecasting program

Price \$1,000 purchase**Environment** Computers: any OASIS-based computer system and AlphaMicro computers running under AMOS. Main storage: not specified. Source language: OASIS BASIC, AMOS BASIC.**Capabilities** Simplified ledger spreadsheets for sales/expense forecasting. Budget file maintenance and variance reports compare actual versus budget balances. Cash flow forecaster projects open customer and vendor invoices.**Description** Financial Analysis provides in-depth analysis of financial data for budgeting, cash flow, tax, loan, depreciation, investment, and fixed asset applications.**Compatibility Matrix:** 207.0025.002**Features Matrix:** 207.0030.002

HABA SYSTEMS15154 Staggy St
Van Nuys CA 91405

(213) 901-8828

► GRAPH 'N' CALC

A decision support program with graphics

Price \$195 purchase (\$35 for optional plotter support)**Environment** Computers: Apple III. Main storage: 128K bytes. Source language: Apple Business BASIC.**Capabilities** Multiple linear regressions. Net present value, internal rate of return, and exponential smoothing. Line charts. Pie charts. Side-by-side and stacked-bar charts. Interfaces with other spreadsheet programs to store and retrieve files.**Description** GRAPH 'N' CALC integrates spreadsheet capabilities with high-resolution color graphics. The graphics can be organized in a slide-show format and retrieved from diskette in timed sequence or on an individually keyed basis.**Compatibility Matrix:** 207.0025.002**Features Matrix:** 207.0030.002

HORIZON SOFTWARE SYSTEMS185 Berry St
Suite 4821
San Francisco CA 94107

(415) 543-1199

► Horizon Spreadsheet

A spreadsheet modeling program

Price \$245 purchase**Environment** Computers: microcomputers running under UNIX or UNIX-like operating systems. Main storage: not specified. Source language: not specified.**Capabilities** On-screen menu and command prompts guide user through statistical, financial, and mathematical functions. Supports split-screen editing. Permits consolidation of multiple spreadsheets. Integrates with Horizon Word Processing.**Description** Horizon Spreadsheet can be implemented in single- or multiuser environments. The model-building commands used by the program are similar to those used in VisiCorp VisiCalc; therefore, users who are familiar with VisiCalc can easily use Horizon Spreadsheet. Because the program uses disk-based virtual memory, models can address every cell in the 256-row-by-256-column matrix.**Compatibility Matrix:** 207.0025.002**Features Matrix:** 207.0035.002

IDEAWARE225 Lafayette St
Suite 712
New York NY 10012

(212) 334-8043

► The Idea Processor

An outline processor

Price \$295 purchase**Environment** Computers: IBM Personal Computer, Personal Computer XT, and compatible microcomputers. Main storage: 192K bytes. Source language: not specified.**Capabilities** Free-form electronic filing of notes, facts, or quotes. File records can be transferred to the built-in text editor for use in preparing outlines and manuscripts. Each record can hold up to 8K characters. Supports B-tree record access with multiple keys for each record. Full-function WP.**Description** The Idea Processor, by linking a keyed electronic filing system with a full-function WP program, assists writers and researchers in gathering information and preparing manuscripts. The filing system can maintain any sort of textual record, including boilerplate text, bibliographical references, portions of spreadsheet models, and even graphs. The indexing function allows users to reorganize the records, which can then be transferred into WP documents for editing, embellishment, and formatting.**Compatibility Matrix:** 207.0025.002**Features Matrix:** 207.0030.002

INFORMATION ACCESS

1932 Ferndale Pl
Thousand Oaks CA 91360

(805) 492-6257

► The Financial Planner

A financial modeling package

Price \$700 purchase

Environment Computers: microcomputers running under CP/M; IBM Personal Computer and Personal Computer XT running under PC DOS. Main storage: 48K bytes (CP/M); 128K bytes (IBM). Source language: not specified.

Capabilities Financial modeling and analysis. Generates reports in spreadsheet format. Consolidates sub-models into master model. Goal seeking. Supports scalar variables and solves simultaneous equations.

Description The Financial Planner is a modeling language designed for numerous microcomputers. In addition to performing standard row-and-column calculations, the package allows users to set specific goals and then determine the conditions required to meet those goals.

The IBM Personal Computer version of The Financial Planner offers significant improvement in the program's ability to access external files, including those of the Ashton-Tate dBASE II data base management system.

Compatibility Matrix: 207.0025.002
Features Matrix: 207.0030.002

INSTANT SOFTWARE

Peterborough NH 03458

(603) 924-9471

► EasyCalc

A spreadsheet program

Price \$50 purchase

Environment Computers: Tandy TRS-80 Model I or III. Main storage: 48K bytes. Source language: BASIC.

Capabilities Spreadsheet matrix has up to 600 elements in 99 rows by 99 columns. Calculates square roots and percentages. A single command sums rows and columns cumulatively. Creates Scripsit-compatible files.

Description EasyCalc allows mathematical formulas to be associated with specified cells in the matrix of rows and columns in the spreadsheet. It includes a built-in algebraic calculator that performs calculations on an entire row or column in a single operation.

Compatibility Matrix: 207.0025.002
Features Matrix: 207.0030.002

INTERACTIVE SYSTEMS

2432 W Peoria Ave
Suite 1282-B
Phoenix AZ 85029

(602) 993-3579

► COMPU-SHEET

A spreadsheet program for computers running under PICK

Price \$795 purchase

Environment Computers: Microdata, Prime, and other computers running under PICK. Main storage: not specified. Source language: not specified.

Capabilities Multiuser operation. Spreadsheet modeling with worksheet-oriented formulas. Algebraic logic with absolute or relative reference to worksheet locations. Conditional logic. All calculations carried to four decimal places. Split-screen worksheet editing. Model consolidation. Formulas can retrieve data from other spreadsheet models or from a data base file. Password security for each worksheet.

Description COMPU-SHEET is a full-function spreadsheet modeling program that uses the sophisticated data base features of the PICK operating system. In addition to extracting information from data base files and other spreadsheet models, COMPU-SHEET interfaces directly to Accusoft Enterprises ACCU-PLOT business graphics program.

Compatibility Matrix: 207.0025.002
Features Matrix: 207.0030.002

ITSoftware

PO Box 2392
Princeton NJ 08540

(800) 799-2600
(609) 222-0592

► CalcIT

A three-dimensional spreadsheet program

Price \$400 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, and compatible computers. Main storage: 192K bytes. Source language: Assembler.

Capabilities Spreadsheet modeling with a three-dimensional worksheet of up to 255 pages containing 255 rows by 255 columns. Command files and keyboard macrofiles. Reads and writes Data Interchange Format (DIF) files.

Description CalcIT offers powerful consolidation features that allow users to combine several spreadsheet models into a single model. CalcIT, as part of the IT family of software products, can exchange information with the KeepIT DBMS and WritIT WP program.

Compatibility Matrix: 207.0025.002
Features Matrix: 207.0030.002



L & L PRODUCTS

PO Box A-57
Hanover NH 03755

(603) 643-4503

► SPREAD

A financial modeling language

Price \$500 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, and compatible computers. Main storage: not specified. Source language: FORTRAN.

Capabilities Language-based financial analysis and reporting. Supports goal seeking and what-if analysis. Conditional logic. Model consolidation. Features net present value and internal rate of return.

Description SPREAD is a financial modeling language that is available for micro-, mini-, and mainframe computer systems. SPREAD offers a range of financial features and includes a built-in editor that allows users to easily create and maintain models. SPREAD allows long variable names, substitute variables, diversion of output to disk files, and syntax checking.

Compatibility Matrix: 207.0025.002

Features Matrix: 207.0030.002

LIVING VIDEOTEXT

1000 Elwell Court
Suite 232
Palo Alto CA 94303

(415) 964-6300

► ThinkTank

An organizational tool

Price Purchase: \$195 (IBM); \$150 (Apple)

Environment Computers: IBM Personal Computer, Personal Computer XT, and compatible computers; Apple II+, IIe, III, and Macintosh. Main storage: varies. Source language: Pascal.

Capabilities Enables users to organize ideas into outline form. Category and subcategory headings allow outlines to be collapsed into summary form or expanded into detail form. Full-screen text editor allows modification or reorganization of outline. Global string search for key words or phrases. Uses pull-down menu functions on Macintosh.

Description ThinkTank organizes randomly entered ideas into an outline format with both categories and subcategories. Users can then manipulate the outline to increase cohesiveness. Ideas, once organized, can be extended, modified, moved, or erased as needed by using the built-in text editor.

Compatibility Matrix: 207.0025.002

Features Matrix: 207.0030.002

MICROPRO INTERNATIONAL

33 San Pablo Ave
San Rafael CA 94903

(415) 499-1200

► CalcStar

An electronic spreadsheet

Price \$195 purchase

Environment Computers: IBM Personal Computer; microcomputers running under CP/M or MS-DOS. Main storage: 64K bytes (CP/M), 160K bytes (PC DOS). Source language: Pascal.

Capabilities Cells contain text or numeric algebraic-logical expressions. Summation, logical, reference, and linear regression operators. Conditional logic. Variable column width. Password protection. Spreadsheet models can be edited or merged with text through MicroPro's WordStar. Displays color text on IBM Personal Computer.

Description CalcStar is an electronic spreadsheet program that supports models up to 127 columns by 255 rows. It features decimal numbers, conditional logic, and a range of mathematical and financial functions. CalcStar uses WordStar cursor commands for model editing.

Compatibility Matrix: 207.0025.002

Features Matrix: 207.0030.002

MICROPRO INTERNATIONAL

33 San Pablo Ave
San Rafael CA 94903

(415) 499-1200

► PlanStar

A financial modeling program

Price \$695 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT running under PC DOS. Main storage: 128K bytes. Source language: Microsoft BASIC.

Capabilities Cash flow projections. Internal rates of return, net present values, and moving averages. Model consolidation. Split-screen editing. Reads Data Interchange Format (DIF) files and writes models in a format that can be edited under MicroPro's WordStar word processing program.

Description PlanStar is a financial modeling tool that handles projects with up to 1,000 worksheets containing up to 32,000 cells each. Under PlanStar, models can use data stored on different spreadsheets to perform calculations. PlanStar allows models to be created in an English-like procedure language and can present the user with an online tutorial at any step in the program.

Compatibility Matrix: 207.0025.002

Features Matrix: 207.0030.002

MICROSOFT CORP10700 Northup Way
Bellevue WA 98004

(206) 828-8080

► Multi-Tool Budget

A spreadsheet model generator

Price \$150 purchase**Environment** Computers: Apple II+, IBM Personal Computer, and many microcomputers running under MS-DOS. Main storage: not specified. Source language: not specified.**Capabilities** Interactively creates seven interrelated Microsoft Multiplan worksheets for business budgeting. Supports the Microsoft Mouse.**Description** Multi-Tool Budget interactively prompts the user with questions about the kinds of items that the company makes or sells, unit labor and material costs, budget intervals, forecast horizon, and other fixed and variable expenses. The program is prestructured but allows flexibility in such areas as reporting intervals. Multi-Tool Budget then creates several worksheets tailored to the user's responses: the operating budget worksheet combines cost and expense data from the manufacturing overhead, unit cost, sales, cost of goods sold, and administrative expense worksheets; the variance-analysis worksheet provides overall budget control. The worksheets run under Multiplan, and each worksheet is interrelated with the others.**Compatibility Matrix:** 207.0025.002**Features Matrix:** 207.0030.002**MICROSOFT**10700 Northup Way
Bellevue WA 98004

(206) 828-8080

► Multiplan

A spreadsheet modeling program

Price \$275 purchase**Environment** Computers: Apple II+, IIe, IIfx, and Macintosh; microcomputers running under CP/M, MS-DOS, or XENIX. Main storage: 64K bytes. Source language: not specified.**Capabilities** Spreadsheet calculation and modeling. Replicates, moves, or deletes entire rows or columns. Global search and replace. References and updates several interrelated spreadsheets. Screen can be split into eight independent windows. Special iteration option performs closed-loop calculations. If-then-else conditional calculations. Sorts data in a given row or column alphabetically or numerically. Protects sections of the spreadsheet from accidental alteration. Transfers files using the Data Interchange Format (DIF).**Description** Multiplan is an interactive, memory-bound spreadsheet program 65 columns wide and 255 rows deep. Multiplan allows individual cells or groupsof cells to be given variable names. These variable names can then be used in defining spreadsheet formulas. A complicated formula (e.g., $R12C1=R1C3-R5C12$) can thus be expressed simply as Profit=Sales-Costs.

A hierarchy of worksheets can be constructed, with detailed worksheets feeding totals to a summary worksheet. The split-screen feature allows up to eight worksheets to be viewed simultaneously. Once a subordinate worksheet has been updated and saved on disk, the summary worksheet is updated automatically the next time it is loaded.

Compatibility Matrix: 207.0025.002**Features Matrix:** 207.0030.002**MIDWEST COMPUTER CENTER**5785 Merle Hay Rd
PO Box 188
Johnston IA 50131

(515) 276-3387

► FINANCIAL ANALYSIS

A financial management and control system

Price \$495 purchase**Environment** Computers: any CP/M-based computer system. Main storage: 64K bytes. Source language: FORTRAN.**Capabilities** Updates budget data at any time, with month-to-date and year-to-date comparisons of budget versus actual data. Five depreciation methods for annual summaries. Stores more than 1,000 fixed assets on a single diskette. Complete amortization schedules.**Description** FINANCIAL ANALYSIS is a financial tracking system that automatically collects, stores, and distributes financial data for budgeting, fixed asset and general ledger applications. The system works in conjunction with MCC Software's General Ledger program.**Compatibility Matrix:** 207.0025.002**Features Matrix:** 207.0030.002

P-E CONSULTING GROUP

Park House Wick Rd
Egham, Surrey PW20 OHW
England

0784-34411

► Micro Finesse

A spreadsheet program

Price \$495 purchase

Environment Computers: Apple II and Apple II+. Main storage: 48K bytes. Source language: Pascal.

Capabilities Performs calculations based on historical data and model specifications. Calculates targeted amounts based on amounts already entered. Shows effects of changes or manipulations on variables. Performs standard business calculations. Determines outcome of certain risk factors on defined models.

Description Micro Finesse is a program that can perform spreadsheet calculations and modeling based on data entered in numerous formats, including 0 (integer), 1 (one decimal place), 2 (two decimal places), K (thousands), M (millions), % (percentage calculations), and L (row). Data can be entered as strings of individual values, as linear growth, as compound growth, as arithmetic or prorata calculations, and as a percentage of change. Output includes numerous reports, simple graphs, and histograms.

Compatibility Matrix: 207.0025.003
Features Matrix: 207.0030.003

PEACHTREE SOFTWARE

3445 Peachtree Rd NE
Atlanta GA 30326

(404) 239-3000

► PeachCalc

An electronic spreadsheet

Price \$150 purchase

Environment Computers: microcomputers running under CP/M or MS-DOS. Main storage: 44K bytes. Source language: not specified.

Capabilities Forecasting. Profit and loss statements. Rate of return calculations. Break-even analysis. Manpower assignments. Pricing strategy. Financial planning. Loan amortization. Chemical calculations. Surveys.

Description PeachCalc is a data analysis system that allows the construction of financial models or worksheets measuring as many as 254 rows by 63 columns of labels, numbers, and formulas. The system provides such operations as subtraction, addition, multiplication and division, minimum and maximum, square roots, and partial sums. In addition, one or more worksheets can be combined or portions of any worksheet can be repeated for any other worksheet being constructed. PeachCalc can transfer information to and from other programs using Data Interchange Format (DIF) files.

Peachtree also offers PeachCalc along with WP, proofreading, and mailing list programs as part of the Peach-Text 5000 package for MS-DOS-based systems.

Compatibility Matrix: 207.0025.003
Features Matrix: 207.0030.003

PERFECT SOFTWARE

1001 Camelia St
Berkeley CA 94710

(800) 222-4222
(415) 527-2626

► Perfect Calc

A spreadsheet modeling program

Price \$295 purchase

Environment Computers: IBM Personal Computer running under PC DOS; microcomputers running under CP/M or MS-DOS. Main storage: not specified. Source language: C.

Capabilities Spreadsheet modeling and analysis. Inserts, deletes, moves, and replicates rows and columns. Extensive mathematical and financial functions available. Protects sections of the spreadsheet from accidental alteration. Global and individual variable column widths. Screen splits into two windows. Allows up to seven spreadsheets to be modified simultaneously.

Description Perfect Calc integrates easily with Perfect Software's Perfect Writer word processing program and Perfect Filer data base management program. All Perfect Calc models are stored on disk as standard ASCII files, facilitating transfer between other programs and computers. Perfect Calc includes built-in commands to post new data automatically to several spreadsheets. The mathematical and financial functions used by Perfect Calc are maintained on disk as a function library file. Users can add their own specialized functions or modify those provided with Perfect Calc. All program commands are organized mnemonically in a structure similar to that of other Perfect Software programs.

Compatibility Matrix: 207.0025.003
Features Matrix: 207.0030.003

PHASE ONE SYSTEMS

7700 Edgewater Dr
Suite 830
Oakland CA 94621

(415) 562-8085

► Masterplan

A financial modeling system

Price \$495 purchase

Environment Computers: microcomputers running under OASIS. Main storage: 48K bytes. Source language: BASIC, Z80 Assembler.

Capabilities Arithmetic. Percentages. Full conditional operators. If-then-else logic. Minimum, maximum, averages. Greater than and less than. Internal rate of return and net present value. Depreciation. Column and row editing. Consolidations. Graphics. Report writer. Full-screen editing, with global search and replace and footnoting.

Description Masterplan is a language-oriented modeling package with a variety of built-in financial functions, a powerful text editor, and an interactive preprocessor. Masterplan uses virtual memory techniques, which support models limited only by disk space (56 columns by an unlimited number of rows). The program supports split-screen windowing and integration of text and models. Masterplan also features a translation function that converts Masterplan keywords into other programming languages.

Compatibility Matrix: 207.0025.003

Features Matrix: 207.0030.003

PYRAMID DATA

PO Box 10116
Santa Ana CA 92711

(714) 639-1527

► Number Cruncher II

A financial modeling and forecasting program

Price \$295 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, and PCjr; microcomputers running under MS-DOS. Main storage: 128K bytes. Source language: not specified.

Capabilities Internal rate of return. Amortization and depreciation. Help facilities. Four-function math by rows or columns. Variable print. Scrolls up to 132 character positions. Password protection. Graphics.

Description Number Cruncher II is a menu-driven financial modeling system with a table-driven forms generator. Although HELP screens are supplied with the program, the user can create additional HELP screens as required.

Compatibility Matrix: 207.0025.003

Features Matrix: 207.0030.003

SATURN SYSTEMS

6875 Washington Ave South
Suite 218
Minneapolis MN 55435

(612) 944-2452
(800) 328-6145

► SATURN-CALC

A spreadsheet modeling program

Price Vendor declined to provide

Environment Computers: Digital Equipment Professional 350 running under P/OS or CTS-300. Main storage: not specified. Source language: not specified.

Capabilities Spreadsheet modeling with more than 16,000 data cells allowed per model. Split-screen editing. Variable column widths. Alphanumeric sorting of data. Performs what-if analysis.

Description SATURN-CALC is available for a range of Digital Equipment mini- and microcomputers. It offers sophisticated editing features, business and financial functions, and transcendental functions. SATURN-CALC can be accessed directly from the main menu of the SATURN-WP program, and spreadsheet models can be stored on disk as WP files for inclusion in reports and other documents.

Compatibility Matrix: 207.0025.003

Features Matrix: 207.0030.003



SMOKE SIGNAL BROADCASTING

31336 Via Colinas
Westlake Village CA 91362

(213) 889-9340

► TMMP/Calc

A spreadsheet program

Price \$250 purchase

Environment Computers: Smoke Signal CHIEFTAIN and VAR series running under OS/9. Main storage: not specified. Source language: BASIC.

Capabilities Menu driven. Uses formatted screens. Can work as a standalone system or interact with other TMMP packages.

Description TMMP/Calc is a column calculator, number manipulator, and spreadsheet program that performs what-if and other types of financial analysis. The system is one module of the Smoke Signal Total Management/Marketing Planning (TMMP) System, which also includes a standard data base manager (TMMP/Manager) and a user-defined data base manager (TMMP/Free Form), each of which can work separately or together.

Compatibility Matrix: 207.0025.003
Features Matrix: 207.0030.003

SOFSTAR

13935 U.S. Hwy 1
Juno Beach FL 33408

(305) 848-7054

► Business Planning Tool (BPT)

An automatically formatted forecasting program

Price \$195 purchase

Environment Computers: IBM Personal Computer. Main storage: 128K bytes. Source language: not specified.

Capabilities Creates budgets, forecasts, and business plans in income statement and balance sheet formats. Writes complex, preformatted spreadsheet templates used in other spreadsheet programs. Graphics.

Description Business Planning Tool (BPT) requires very little training. The user enters data into accounts, such as income, expenses, or assets, and then projects results in the past or the future. Balance sheets and income statements automatically reflect the hypothetical data. BPT can produce either standard reports or a VisiCorp VisiCalc template with all formulas describing the assumptions entered by the user.

Compatibility Matrix: 207.0025.003
Features Matrix: 207.0030.003

SOFTWARE ARTS

27 Mica Ln
Wellesley MA 02181

(617) 237-4000

► The VisiCalc Package

A spreadsheet program for single- or double-drive systems

Price \$179 purchase

Environment Computers: Apple IIc, IIe. Main storage: 64K bytes. Source language: Assembly.

Capabilities Spreadsheet modeling with a worksheet of 65 columns by 255 rows. Split-screen editing. Supports protected cells and hidden data. Displays models in both 40- or 80-character widths. Full range of financial functions, including internal rates of return and net present value. Context-sensitive HELP facility. Allows users to combine commands into a macrofile that can be executed with a single keystroke.

Description The VisiCalc Package includes copies of both VisiCalc and VisiCalc Advanced Version. VisiCalc, designed for single-drive Apple IIc or IIe systems, provides the basic functions required for creating spreadsheet models. VisiCalc Advanced Version, for double-drive systems, adds extensive HELP facilities, keyboard macrofiles, full-word prompts, and variable column widths that can be applied to even a single cell. Both VisiCalc and VisiCalc Advanced Version are compatible with Apple DOS 3.3 and ProDOS. VisiCalc Advanced Version can be copied onto the ProFile disk drive running under ProDOS.

Compatibility Matrix: 207.0025.003
Features Matrix: 207.0030.003

SOFTWARE ARTS

27 Mica Ln
Wellesley MA 02181

(617) 237-4000

► TK!Solver

A problem-solving tool kit

Price Purchase: \$399 (MS-DOS); \$299 (Apple IIe); \$249 (Apple Macintosh)

Environment Computers: IBM Personal Computer and Personal Computer XT, Digital Equipment Rainbow and Professional series, Texas Instruments Professional Computer, Wang Professional Computer, Apple IIe and Macintosh, and microcomputers running under MS-DOS. Main storage: 96K bytes. Source language: not specified.

Capabilities Equation solving. Provides user with complete control over equations, variables, and conversion unit of measurement. Supports direct or iterative problem solving. Equations stated in algebraic format. Accepts a list of variable values to calculate a table of solutions. Optional graphing of results.

Description TK!Solver, written by the creators of VisiCorp's VisiCalc, is an algebraic problem-solving tool kit. TK!Solver presents the user with a series of screens: global sheet, rule sheet, variable sheet, unit sheet, list sheet, user function sheet, plot sheet, and table sheet.

The global sheet screen provides a menu of all available functions and sheets. The user defines a series of inter-related equations on the rule sheet screen. TK!Solver then scans the equations, identifies variable names, and displays them on the variable sheet. Values for any known variables can be stated on the variable sheet. Any required conversion unit of measurement is defined on the unit sheet screen. The list sheet allows a list of values to be input for any given variable.

TK!Solver then solves the equations for any unknown variables by using artificial intelligence techniques. TK!Solver understands that the algebraic expression $\text{Speed} = \text{Distance} \div \text{Time}$ implies that $\text{Speed} \times \text{Time} = \text{Distance}$. If possible, the program uses direct algebraic logic to solve the equations. Otherwise, it prompts the user for a first guess and then repeatedly applies sophisticated methods of numeric analysis to converge on a solution.

Preprogrammed models are available from Software Arts for finance, engineering, and educational applications.

Compatibility Matrix: 207.0025.003
Features Matrix: 207.0030.003

SOFTWARE PRODUCTS INTERNATIONAL

10240 Sorrento Valley Rd
San Diego CA 92121

(619) 450-1526

► Logicalc

A financial planner and report generator

Price \$190 purchase

Environment Computers: IBM DisplayWriter and Personal Computer, Sage, and COMPAQ microcomputers running under UCSD p-System. Main storage: varies. Source language: Pascal.

Capabilities Visual display and interactive screen processing. Conditional expressions. Regression function. Directory lookup. Columnar formatting. Automatic form mode. Merge command. Print command. Hard-copy output.

Description Logicalc is a financial planning and report generating system that performs various statistics and projections. System features include conditional expressions, such as what-if analysis; the ability to use relational operators, including less than (L), greater than (7), less than or equal to (L=), and greater than or equal to (7=); and logical operations, such as *and* and *or*. The user can specify both the width and decimal precision of each column for each entry. The system's automatic form mode allows the user to key only the data that changes. Its merge command allows two or more reports to be displayed on one screen. In addition, printed reports, either complete or partial, can be generated according to any user-specified parameters.

Compatibility Matrix: 207.0025.003
Features Matrix: 207.0030.003



SOFTWARE PRODUCTS INTERNATIONAL10240 Sorrento Valley Rd
San Diego CA 92121

(619) 450-1526

► Procalc

A spreadsheet program

Price \$350 purchase**Environment** Computers: various microcomputers running under UCSD p-System. Main storage: not specified. Source language: not specified.**Capabilities** Large-scale models and reports. Multiple independent or dependent windows. Multiple model access and merging. Recalculation of incorrect models. Business functions. Protection, form, justification, precision/bar graph, and enhance/underline of all entries. Nested if-then-else statements. Goal seeking.**Description** Procalc performs financial planning and generates reports of up to 50,000 entries or large-scale models. Business functions include present value (PV), future value (FV), amortization payment (PMT), amortization present value (APV), sum-of-years depreciation, (DEPRY), declining-balance-method depreciation (DEPRD), vector lookup (LIST), table lookup (TABLE), and linear estimation-regression (LNEST). General analysis functions include absolute value (ABS), integral value (INT), logical not (NOT), minimum (MIN), size of range (COUNT), summation (SUM), arithmetic mean (MEAN), exponentiation (PWR), current date (DATE), current time (TIME), and maximum (MAX). An MS-DOS version of Procalc will soon be introduced.**Compatibility Matrix:** 207.0025.003
Features Matrix: 207.0030.003

SORCIM/IUS2195 Fortune Dr
San Jose CA 95131

(408) 942-1727

► EasyPlanner

A financial planning program

Price \$250 purchase**Environment** Computers: IBM Personal Computer and Personal Computer XT. Main storage: 96K bytes. Source language: not specified.**Capabilities** Financial analysis. Generates reports in spreadsheet format. What-if analysis. Boolean operations. Net present and future value. Conditional calculations and program branching. Subworksheets can be combined into master spreadsheets. Spreadsheets can be edited with the EasyWriter II WP system. Compatible with SORCIM/IUS EasyPlus window manager.**Description** EasyPlanner is a financial planning package that creates programmable interactive models. Powerful workstep commands allow conditional branches and user-definable prompts to be included in the fi-

nancial models. Once a workstep program has been created, it can be run by anyone. EasyPlanner loads the correct worksheet, prompts for any required data, recalculates the spreadsheet, and then automatically saves and prints the results.

Compatibility Matrix: 207.0025.004
Features Matrix: 207.0030.004

SORCIM/IUS2195 Fortune Dr
San Jose CA 95131

(408) 942-1727

► SuperCalc

A spreadsheet program

Price \$195 purchase**Environment** Computers: microcomputers running under CP/M. Main storage: 56K bytes. Source language: Assembler.**Capabilities** Financial analysis. Engineering tables. Price studies. Cash flows. Econometrics. What-if planning. Mathematical models. Investments. Forecasting.**Description** SuperCalc is a spreadsheet program that allows the user to set up mathematical models, in interactive mode, by placing formulas at the intersections of rows and columns on a matrix. Formulas can be algebraic, logical, or have constants or references to other cells. As each formula is entered, the program recalculates and updates the display. System functions include summation, trigonometric, logical operations, value operations, reference operations, financial statistics, and error and not-applicable designations.**Compatibility Matrix:** 207.0025.004
Features Matrix: 207.0030.004

SORCIM/IUS

2195 Fortune Dr
San Jose CA 95131

(408) 942-1727

► SuperCalc²

An electronic spreadsheet based on SuperCalc

Price \$295 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT. Main storage: not specified. Source language: Assembler.

Capabilities Date arithmetic and calendar functions. Consolidates an unlimited number of spreadsheets. Sorts rows or columns by numeric or alphabetical values. Allows construction of canned step programs for later use by untrained personnel. Performs calculations twice as fast as standard SuperCalc. Provides row and column ranges for ease of data entry and model construction.

Description SuperCalc² is an enhanced version of SuperCalc. For SuperCalc users, retraining is not necessary, and spreadsheet files created with SuperCalc can be used on SuperCalc². A training guide is available.

SuperCalc² can switch to other programs without going back through the operating system prompt. It performs such arithmetic functions as rounding and modulo calculations. Formatting enhancements include floating dollar signs, embedded commas, percentages, conversion of zeros to blanks, and variable decimal places. Enhanced printing capabilities, such as optional carriage return/line feed, automatic form feed, and double spacing, allow the program to be used with a variety of printers.

Compatibility Matrix: 207.0025.004
Features Matrix: 207.0030.004

Description Magic Worksheet is a menu-driven spreadsheet program supporting 65 columns by 256 rows. A powerful tutorial feature is available at any time. A type-ahead capability allows users to enter formulas and data quickly without waiting for the program to respond. Magic Worksheet also reclaims memory used for first-draft scratchpad calculations.

Compatibility Matrix: 207.0025.004
Features Matrix: 207.0030.004

SUPERSOFT INC

PO Box 1628
Champaign IL 61820

(217) 359-2112

► Scratch Pad

An electronic worksheet program

Price \$295 purchase

Environment Computers: microcomputers running under CP/M or PC DOS. Main storage: 48K bytes. Source language: CBASIC

Capabilities Every cell on spreadsheet usable. Merge and consolidation programs combine similar values from many different worksheets into one master spreadsheet. Unlimited window splitting. Reports can be generated to a screen or printer, or saved on disk for subsequent processing.

Description Scratch Pad is an electronic worksheet program with virtual memory and an "invisible" format. It features a full complement of built-in functions, including sum, sin, cos, tan, sqr, abs, int, if-then.

Compatibility Matrix: 207.0025.004
Features Matrix: 207.0030.004

STRUCTURED SYSTEMS GROUP

5204 Claremont Ave
Oakland CA 94618

(415) 547-1567

► Magic Worksheet

A spreadsheet program

Price \$250 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, and compatible computers; microcomputers running under CP/M, MP/M, CP/M-86, or MP/M-86. Main storage: 56K bytes. Source language: CBASIC.

Capabilities Spreadsheet calculation and modeling. Replicates, moves, inserts, and deletes rows and columns. Boolean operations. Mathematical functions, including net present value. Global and individual variable column widths. Screen splits into two windows. Portions of several worksheets can be combined into a single worksheet. Reads files to and from Structured Systems Group Word Right word processing system.



SUPERSOFT INC

PO Box 1628
Champaign IL 61820

(217) 359-2112

► Scratch Pad Plus

A spreadsheet program

Price \$195 purchase

Environment Computers: Texas Instruments Professional Computer, IBM Personal Computer, Digital Equipment Rainbow, Victor 9000, NEC APC, and microcomputers operating with CP/M-86, IBM PC DOS, or MS-DOS. Main storage: 128K bytes. Source language: C.

Capabilities Virtual memory allows every cell to be used. With a disk, more than 20,000 entries. Matrix of up to 999 rows or columns in any combination. Variable display formats. Sorting. Report generation. Consolidation.

Description Scratch Pad Plus is an electronic spreadsheet that gives the user flexibility over entry, cross-referencing, and computational analyses of all kinds of data. It is a business planning tool for what-if analysis and financial modeling, and it includes such built-in functions and routines as future value.

Compatibility Matrix: 207.0025.004

Features Matrix: 207.0030.004

SUPERSOFT INC

PO Box 1628
Champaign IL 61820

(217) 359-2112

► Scratch Pad with Voice Drive

Electronic spreadsheet with voice commands

Price \$495 purchase (\$995 including Tecmar Voice Recognition Card)

Environment Computers: IBM Personal Computer with Tecmar Voice Recognition Card, Texas Instruments, Professional Computer with SpeechCommand. Main storage: 128K bytes. Source language: C.

Capabilities Creation of spreadsheet with voice commands. Maximum 999 rows and/or columns. Consolidation capability. Unlimited window splitting.

Description Scratch Pad with Voice Drive provides voice control of commands and full data entry. Keyboard and voice can be used interchangeably. Voice control enables keyless presentations in boardroom situations and allows operation of the program by the handicapped.

Compatibility Matrix: 207.0025.004

Features Matrix: 207.0030.004

SYSTEMS PLUS

1120 San Antonio Rd
Palo Alto CA 94303

(415) 969-7047

► The Wedge

An electronic worksheet program

Price \$200 purchase

Environment Computers: any MP/M- or CP/M-based system. Main storage: 56K bytes. Source language: not specified.

Capabilities Supports 52 columns and 400 rows. Split-screen formatting. Insertion of rows and columns. Worksheet scrolling. Built-in calculator. Formulas can combine numbers, even with multiple references.

Description The Wedge is an electronic worksheet that provides budgeting, forecasting, and critical financial assessments. The system includes a built-in calculator that allows use of simple arithmetic symbols to enter formulas; each formula can consist of up to 60 characters. In addition, the system is compatible with most word processors and can generate printed reports for all types of statistics.

Compatibility Matrix: 207.0025.004

Features Matrix: 207.0030.004

T/MAKER

2115 Landings Dr
Mountain View CA 94043

(415) 962-0195

► T/MAKER III

A spreadsheet program with text and list processing capabilities

Price \$275 purchase

Environment Computers: microcomputers running under CP/M, CP/M-86, or MS-DOS; IBM Personal Computer. Main storage: varies. Source language: C.

Capabilities Creates spreadsheet models up to 44 columns wide. Built-in text editor for modifying spreadsheets and creating memos. Full-screen editor handles text up to 300 characters wide. List processor sorts and tallies alphanumeric data. Interfaces to other programs.

Description T/MAKER III combines the power of spreadsheet modeling with the ability to generate memos, format reports, sort lists of items, and plot simple bar charts. The spreadsheet includes special financial and statistical analysis functions. The text editor allows fully justified text, bold and underscored characters, and super- and subscripting. The list processor sorts, tallies, matches, and combines lists.

T/Maker has also introduced an integrated version of T/MAKER III, combining WP, spreadsheet modeling, bar graphics, a spelling checker, and a relational data base into a single program.

Compatibility Matrix: 207.0025.004

Features Matrix: 207.0030.004

TEKKNOWLEDGE525 University Ave
Palo Alto CA 94301

(415) 327-6600

► M.1

An artificial intelligence system

Price Purchase: \$12,500 (first CPU license, including four-day training course. Additional CPU license available for 2,500)**Environment** Computers: IBM Personal Computer and Personal Computer XT. Main storage: not specified. Source language: not specified.**Capabilities** Maintains knowledge base of facts and rules about a particular problem or application. Uses the knowledge base to engage in question-and-answer consultations with users. User-defined confidence levels can be used to control the inference process and qualify conclusions drawn from the knowledge base. Users can ask the system to explain its reasoning or justify its conclusions at any point in the consultation.**Description** M.1 helps systems developers determine the applicability of artificial intelligence and knowledge engineering technology to specific problems. The software rapidly develops prototypes of potential full-scale knowledge systems. Using M.1, the developer can build a knowledge base of facts and rules using an English-like language. After the knowledge base has been defined, M.1 can enter into a question-and-answer consultation with a user about a specific problem. M.1 uses the knowledge base to reason about a problem, make recommendations, and draw conclusions.**Compatibility Matrix:** 207.0025.004
Features Matrix: 207.0030.004

TELEVIDEO SYSTEMS1170 Morse Ave
Sunnyvale CA 94086

(408) 745-7760

► TeleSolutions II

A financial planning package

Price \$795 purchase (TS 803), \$595 purchase (TS 1603)**Environment** Computers: TeleVideo TS 803 and TS 1603. Main storage: not specified. Source language: not specified.**Capabilities** Five-year projections. Cash flow and balance sheet forecasting. Financial computations. Spreadsheet of up to 1,000 cells. Formulas to determine the contents of each cell. Split-screen capability. Pie, line, and bar charts.**Description** TeleSolutions II is a set of three programs for spreadsheet, word processing, and integrated graphics applications. Spreadsheet data can be entered cell by cell or in rows or columns by using a constant value and a base value increased by a specific percent-

age or incremented by a constant value. Single-keystroke commands simplify data entry, while the menu, prompting formats, Help file, and built-in formulas simplify complex calculations.

Users can work with up to five documents, switching from one to another with a single keystroke. The split-screen function allows two documents to be edited simultaneously. Line and bar charts can be combined in a single display. The WP program operates with all standard letter-quality printers, and the graphics program operates on all Epson and Okidata printers.

Compatibility Matrix: 207.0025.004
Features Matrix: 207.0030.004

TIMBERLINE SYSTEMS7180 SW Fir Loop
Portland OR 97223

(503) 644-8155

► Medallion Spreadsheet

A spreadsheet modeling program

Price \$195 purchase**Environment** Computers: IBM Personal Computer and Personal Computer XT, Texas Instruments Professional Computer, Digital Equipment Rainbow under MS-DOS, IBM DisplayWriter, and Sage II and IV under UCSD p-System. Main storage: 128K bytes. Source language: Pascal.**Capabilities** Spreadsheet analysis using 100 columns by 200 rows. Inserts, deletes, moves, and copies rows and columns. Protects sections of the spreadsheet from accidental alteration. Variable column widths. Screen splits into two windows. Boolean operations. Automatic page wraparound in model printing.**Description** Medallion Spreadsheet links worksheets for sophisticated financial modeling. Such functions as standard deviation, linear regression, correlation coefficients, net present value, and internal rate of return are preprogrammed into Medallion Spreadsheet. Models saved on disk are assigned passwords for protection against unauthorized access.

Medallion Spreadsheet is compatible with companion financial software packages from Timberline, including general ledger, accounts receivable, and inventory programs.

Compatibility Matrix: 207.0025.004
Features Matrix: 207.0030.004

UNICALC CORP

Two Academy Ln
Wayne PA 19087

(215) 687-3485

► **UniCalc/L**

A spreadsheet package

Price \$150 purchase

Environment Computers: IBM Personal Computer and microcomputers running under UNIX. Main storage: 128K bytes. Source language: C.

Capabilities Cell access by coordinates or cell name. Protected fields. Net present value. Conditional expressions. Rows, columns, and blocks inserted, deleted, moved, saved, or copied. Text handling.

Description UniCalc/L supports spreadsheets with up to 255 rows and 64 columns. The Join command allows data to be retrieved from fields in files other than the current file in use.

Compatibility Matrix: 207.0025.004

Features Matrix: 207.0030.004

VECTOR GRAPHIC

500 N Ventu Park Rd
Thousand Oaks CA 91320

(805) 499-5831

► **Execuplan II**

A financial planning and business forecasting tool

Price \$195 purchase

Environment Computers: Vector Graphic. Main storage: not specified. Source language: not specified.

Capabilities Arithmetic operators. Defined constants. Functions: arithmetic, trigonometric. Formatting: array, component, numeric, text. Commands: conditional/comparison, clear, cursor, enter, editing, disk, print, set, sort, title, verify. Logarithms. Help screens. It-then-else logic.

Description Execuplan II is a planning and forecasting system designed to create electronic spreadsheets that manipulate data for in-depth analysis and modeling. The system allows all known assumptions to be tested and evaluated accurately. It sorts information automatically in a model by row or column, in ascending or descending order. It displays negative numbers with a leading or trailing minus sign or in parentheses, and can selectively clear any element of a model without affecting other elements. Functions include sum, mean, average, standard deviation, and net present value. In addition, Execuplan II provides a GET command that enables users to call for data from other models when building new models.

Compatibility Matrix: 207.0025.004

Features Matrix: 207.0030.004

VIA COMPUTER

7177 Construction Ct
San Diego CA 92121

(714) 578-5356

► **Micro/PROPHIT**

A financial planning package

Price \$695 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT; COMPAQ and Columbia Data Products microcomputers. Main storage: 192K bytes. Source language: not specified.

Capabilities Financial modeling and analysis, with reports in spreadsheet or graph format. Models are easily consolidated into larger, integrated modules. Features financial functions, including internal rates of return, net present value, depreciation, and loss carry-forward. Solves simultaneous equations. Supports communications with remote mainframes.

Description Micro/PROPHIT is a comprehensive microcomputer version of the PROPHIT financial modeling system used on many mainframe computers. The modeling language used in Micro/PROPHIT is compatible with that of the mainframe version and features conditional branching and built-in financial functions. Models can be up to 9,000 lines long, with 135 columns per line.

Micro/PROPHIT supports scalar variables to speed evaluation of what-if scenarios. Micro/PROPHIT also offers the user the option of setting a target goal and then letting the system adjust selected line items until the target is reached, all in one simple operation.

Various preprogrammed application models are available for use on Micro/PROPHIT.

Compatibility Matrix: 207.0025.004

Features Matrix: 207.0030.004

VISICORP

2895 Zanker Rd
San Jose CA 95134

(408) 946-9000

► Desktop/PLAN

A comprehensive financial and business planning program

Price Purchase: \$250 (Apple II); \$300 (Apple III and IBM PC)

Environment Computers: Apple II, III, IBM Personal Computer. Main storage: 48K bytes (Apple II); 128K bytes (Apple III); 64K bytes (IBM). Source language: BASIC.

Capabilities Consolidates identical submodels into one larger model. Calculation. Plotting. Conditional branching. Supports models of 18 columns by 300 rows on the Apple II, 100 columns by 990 rows on the IBM Personal Computer, and 300 columns by 1,000 rows on the Apple III.

Description Desktop/PLAN is a menu-driven model generator for financial planning, budgeting, and analysis. Boardroom-quality reports and graphs can be printed. Desktop/PLAN can be used instead of time-shared financial modeling programs.

Compatibility Matrix: 207.0025.004

Features Matrix: 207.0030.004

VISICORP

2895 Zanker Rd
San Jose CA 95134

(408) 946-9000

► FlashCalc

An electronic spreadsheet modeling program

Price \$99 purchase

Environment Computers: Apple IIe and IIc running under ProDOS. Main storage: 64K bytes. Source language: Assembler.

Capabilities Spreadsheet modeling with 65 rows by 256 columns. Full set of financial functions. Supports pull-down menus. Features variable-width columns for flexibility in model format. Optional disk drive support.

Description FlashCalc, a low-end spreadsheet program, provides users with a range of features useful in general financial planning and analysis. FlashCalc is compatible with the file format used by all the VisiCorp VisiSeries programs.

Compatibility Matrix: 207.0025.004

Features Matrix: 207.0030.004

VISICORP

2895 Zanker Rd
San Jose CA 95134

(408) 946-9000

► VisiCalc

An electronic spreadsheet program

Price Purchase: \$99; \$250 (Apple II and III)

Environment Computers: Atari 800; Commodore 2001, 2002, 8032, and 8096; Apple II+, IIe, and III; Hewlett-Packard HP 85X, 86, 87, and 125; IBM Personal Computer; Radio Shack TRS-80 Models I, II, and III. Main storage: varies. Source language: Assembler.

Capabilities Any number of formulas can be changed; numbers immediately affected by the change are recalculated and displayed. Duplicates entries anywhere on worksheet without retyping. Displays formatting and mathematical functions and simple bar graphs. Boolean operators. Variable column width.

Description VisiCalc is an electronic worksheet that solves mathematical problems by the what-if procedure. Results are instantly calculated. VisiCalc accommodates cash flow, inventory, cost estimates, and budgets and analyzes the impact of possible future decisions. The program generates electronic worksheets with up to 63 columns and 255 rows. A single worksheet can be edited on a screen split into horizontal or vertical windows.

Compatibility Matrix: 207.0025.004

Features Matrix: 207.0030.004



VISICORP

2895 Zanker Rd
San Jose CA 95134

(408) 946-9000

► **VisiCalc Advanced Version**

An advanced electronic spreadsheet version of VisiCalc

Price \$295 purchase

Environment Computers: Apple IIe and III. Main storage: 128K bytes. Source language: Assembler.

Capabilities Any number or formula can be changed; numbers immediately affected by the change are recalculated and displayed. Duplicates entries and formulas anywhere on the worksheet without retyping. Extensive formatting and function commands. Boolean and conditional operators.

Description VisiCalc Advanced Version extends the problem-solving power, speed, and accuracy of electronic worksheets throughout any organization. Budgets and forecasts can be developed in a uniform manner, consolidated, and printed out in presentation-quality reports. VisiCalc Advanced Version offers a great deal of flexibility in the formatting of spreadsheet reports, including such functions as floating dollar signs, commas, parentheses for negative values, and debit and credit symbols.

The program produces complete templates for subsequent data entry. Any area of the worksheet can be specified as a protected area, preventing accidental deletion or alteration of important formulas and data.

Compatibility Matrix: 207.0025.004
Features Matrix: 207.0030.004

gram automatically transfers data from one worksheet to another.

Compatibility Matrix: 207.0025.004
Features Matrix: 207.0030.004

VISICORP

2895 Zanker Rd
San Jose CA 95134

(408) 946-9000

► **VisiCalc IV**

An electronic spreadsheet

Price \$250 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, and compatible computers. Main storage: 128K bytes. Source language: not specified.

Capabilities Spreadsheet modeling. Financial planning. Budgeting. Cost analysis. Profit forecasting. Eight kinds of charts and graphs. Color graphics.

Description VisiCalc IV, an updated version of VisiCalc, features business graphics; alphabetical or numerical sorting; the ability to rearrange data for quick summaries; and single-keystroke, user-programmable function keys. VisiCalc owners can upgrade to VisiCalc IV; owners of VisiCalc IV can upgrade to VisiCorp's VisiOn integrated environment.

Compatibility Matrix: 207.0025.004
Features Matrix: 207.0030.004

VISICORP

2895 Zanker Rd
San Jose CA 95134

(408) 946-9000

► **VisiCalc Business Forecasting Model**

Seven interrelated VisiCalc application worksheets

Price \$100 purchase

Environment Computers: Apple II and III; IBM Personal Computer. Main storage: 48K bytes (Apple II); 128K bytes (Apple III); 64K bytes (IBM). Source language: BASIC.

Capabilities Generates seven financial reports: income statements, balance sheets, cash flow, financial ratios, sales and cost of goods, salaries, asset and depreciation schedules. Transfers data from one worksheet to another.

Description VisiCalc Business Forecasting Model consists of seven interrelated VisiCalc templates containing financial information useful to businesses. The what-if capabilities of VisiCalc produce income statements, balance sheets, statements of cash flow, financial ratios, sales and cost of goods summaries, salary reports, and assets and depreciation schedules. The pro-

WICAT SYSTEMS

PO Box 539
1875 S State
Orem UT 84057

(801) 224-6400

► UltraCalc

An analysis and forecasting program

Price \$500 purchase

Environment Computers: WICAT. Main storage: not specified. Source language: not specified.

Capabilities Alter order. Blank. Copy. Delete. Edit. Format. Hold constant. Insert. Justify. Load. Move. Output. Protect. Quit. Replicate. Save. Title. Unprotect. Vacate. Width. Execute. Repeat label. Recalculate.

Description UltraCalc provides accurate analysis and forecasting. It provides a large electronic worksheet that quickly manipulates and analyzes tabular data and offers multiple modes of data interpretation. Output includes economic forecasts, trend analysis, and various other computations. Features include attribute highlighting, graphics, nonconsecutive row and column display, automatic recalculations, 15-digit arithmetic, and calculator and external data operating modes.

Compatibility Matrix: 207.0025.004

Features Matrix: 207.0030.004



AUERBACH On . . .

Leading Microcomputer Applications

INTRODUCTION

One factor that sets microcomputers apart from other business products is their versatility. Simply by changing applications software, a user can employ the same machine for such diverse purposes as project management, investment analysis, statistical analysis, income tax analysis and return preparation, real estate analysis, accounting, scientific and engineering applications, professional time accounting and billing, and medical diagnostics. The addition of specialized hardware permits the same machine to be used as a laboratory instrument (e.g., an intelligent strip-chart recorder), a process control device, or a security system. For the most popular systems (e.g., the IBM Personal Computer, Apple II series, or most products employing such widely used operating systems as Microsoft MS-DOS, Digital Research CP/M, or AT&T Unix), literally thousands of commercial applications are available. If a user cannot find a product that exactly suits his or her needs, a program can probably be written to satisfy them.

Nevertheless, most business microcomputers are purchased with only one or two applications in mind and are then rarely if ever used for any other applications. Furthermore, only a tiny percentage of microcomputer users ever write a useful program in a conventional programming language such as BASIC or FORTRAN. Instead, the typical user employs the machine for one or two generic classes of application programs—generally word processing, data base management, spreadsheets, communications, or graphics.

In 1978, Apple Computer Inc was a young and struggling organization that marketed its Apple II computer primarily to

the hobbyist and experimenter. In the same year, a small company called Software Arts developed VisiCalc, the first automated spreadsheet program. Software Arts entered into a marketing agreement with another company called Personal Software, which was later to become VisiCorp, and is now known as Paladin Software Corporation. VisiCalc was launched, and VisiCorp was granted exclusive marketing rights and ownership of the VisiCalc trademark. In September 1984, the agreement was terminated; Software Arts is now the sole owner of the VisiCalc trademark and the sole marketer of VisiCalc products, including the VisiCalc Package, an enhanced spreadsheet package.

VisiCalc almost single-handedly legitimated the microcomputer as a business product. Hundreds of thousands of users purchased Apples, simply to be able to run VisiCalc. Although many Apple owners eventually acquired other business application programs, VisiCalc remained the original *raison d'être* for their systems.

Similarly, many people today are buying the IBM Personal Computer solely to be able to use a multifunctional product called Lotus 1-2-3 (from Lotus Development Corporation) in their work. Although Lotus is a very good product, it has many worthy competitors; however, in the minds of many people, it has come to represent the primary reason for owning an IBM Personal Computer. Others are using their microcomputer systems solely for WP, graphics, or other single-purpose applications.

Because these types of applications represent a major share of microcomputer use (and of the corresponding software mar-

ket), it is useful to examine the state of the art in these five areas, as well as integrated products (such as Lotus 1-2-3) that offer one or more of these five functions, often along with other capabilities as well. This article will serve two functions. For the beginning microcomputer user, it will discuss these application classes and explain the distinctions between sub-species by comparing popular systems currently on the market. (It should be noted that the prices shown here are list—many products are available from dealers or distributors at sizable discounts.) For the more experienced user, this article will identify product trends and speculate on future developments.

WORD PROCESSING

Words are the means by which ideas are expressed. In order to transmit ideas, a speaker or author must first translate the ideas into words, then organize those words so that they can be understood by others. In creating and expressing ideas, people process words. The computerized WP system, like the typewriter, is a labor-saving tool in the process of distributing written ideas. A properly selected WP program on a microcomputer can significantly enhance productivity at every stage of that process. The WP system increases the productivity of the author, the secretary, and even the reader by simplifying the process of text creation and reducing production time. Thus, the finished copy reaches its destination (the reader) more quickly.

The tasks of creating ideas on the one hand and text on the other frequently conflict. The creative process itself is non-linear, with the author frequently jumping from one thought to another, adding to or modifying previously written material. By comparison, the task of writing is linear. Whether the author is typing, dictating, or writing with a pencil, the words flow out in sequential fashion, and it often becomes difficult to readily modify those written words. The task is time-consuming and often interferes with the creative process. If the author is not the typist, the problem is no different—the delay in receiving typing modifications can upset the process as well.

WP erases this restriction. The author can modify the text as desired, adding to the document at any location, moving text, or deleting text without rekeying unchanged text. WP also adds to the author's productivity by eliminating the problem of typing errors—fixing typos is no longer a laborious process because such systems not only facilitate revisions but also may detect and fix errors as well.

For the secretary, the typewriter has changed little in the past half-century. Although the advent of the electronic typewriter and various correction mechanisms enhanced productivity somewhat, for many applications, those enhancements pale in comparison to what WP can achieve. For original manuscript preparation, WP offers only a minor improvement over electronic typewriters—generally estimated at a 10 percent productivity increase. But for revision of previously typed work or preparation of standard letters, the improvement can be on the order of 400 to 700 percent. Until recently, micro-

computer WP was considered a poor cousin to dedicated WP systems. Microcomputer WP had fewer features and suffered from design defects, hardware limitations, and problems associated with using a general-purpose keyboard for WP. Current microcomputer WP software has improved substantially, to the point at which it is difficult to distinguish dedicated WP from microcomputer WP.

User Needs

The choice of a microcomputer WP program depends most on the type of user who will be working with the program. The three general categories of author, secretary, and manager or professional require different characteristics in microcomputer WP systems; and although a given product may meet the needs of one or even two of these groups, few packages adequately serve all three. Different features and qualities are required, and some of these qualities are mutually exclusive.

There are some universally necessary features that all three principal user groups require. A WP package that does not offer all of these is seriously deficient. The features include overstrike editing, automatic word wrap, the capability to insert, delete, or move text; tabbing and decimal tabbing, indenting, full-screen editing (in contrast to line editing), and automatic pagination.

Authors require easy editing during text creation. Writers should not have to print or reassemble the document to see a reasonably accurate version of the printed copy on the screen. Split-screen capability enables the author to review different sections of the same document or two documents simultaneously. Authors may wish to have multiple formats in use in the same document. Many writers find automatic preparation of outlines, indexes, and tables of contents to be very helpful. In addition, printing should be an easy process. In short, the system should be almost transparent in use, so that the author can concentrate on the creative process without being concerned with the mechanics of the WP system.

The qualities of a good author-oriented WP system are almost antithetical to those of a good secretarial system. Secretarial WP should be rich in sophisticated editing features, and since the appearance of the document is critical, tight print control is needed. Secretaries must be concerned with such operations as form-letter merging and paragraph assembly. Automatic hyphenation scanning and support of right-justified or proportionally spaced text are helpful. Because a secretary may use the system five or more hours a day, the system should promote ease of use by, for example, allowing the user to bypass menus. Some systems require users to work through a menu (or a series of menus) in order to select the desired WP functions. Although this process is helpful for the beginning user, it is unnecessarily time-consuming for the experienced operator. Command-driven systems that allow secretarial operators to bypass menus by typing in commands may be preferable to menu-driven systems.

Ordinarily, the secretary is not creating text but is working from hard copy, so editing can be done after keying is complete. Secretaries, like authors, frequently require multiple formats within the document. Many require mathematic capabilities (to check tabular documents), list processing or sorting, and paragraph assembly. For scientific or academic typing, the ability to automatically tie in footnotes to text is very helpful. When the individuals for whom the secretary provides typing services are also equipped with microcomputers, compatibility with other WP documents becomes an essential consideration. However, it does not necessarily follow that all such users should be using the same WP software.

Professionals—accountants, analysts, managers, engineers, researchers, and others—have still another set of requirements. Ease of use is a major consideration. Because the professional may not be using WP frequently enough to be familiar with every aspect of its use, WP functions must be very straightforward. Integration with other microcomputer software such as graphics or spreadsheet programs is a major advantage. Like the author, the professional requires easy editing during input of text. Split-screen viewing of parts of the same or different documents is also desirable. Advanced or exotic WP features are unnecessary.

Selection Criteria

In addition to the users' criteria, the microcomputer imposes certain selection criteria of its own. The following questions (which are generally applicable to all microcomputer business software) can shorten the list of WP packages to be considered:

- What operating system, if any, is required?
- Is the software specific to a single computer brand and model?
- How much memory is required?
- Does the product require the use of a circuit board, and if so, does it occupy a specific slot?
- Which printers are supported? Is a special printer interface card or printer driver software needed?
- Can the product be used in conjunction with a disk?
- Can it interface with applications software the user already has or is likely to acquire?
- Are overlays, special key caps, or reference charts needed to use the product?
- If used in conjunction with a matrix printer, what type styles and sizes are supported? (Also inquire about bold, sub- and superscript, underscore, double underscore, overstrike, and other printer characteristics.)

Product Evaluations

The following products, though not necessarily the best or the newest offerings in the field, illustrate the variety of WP systems available.

Wordstar. Introduced in 1979, Wordstar (Micropro International, \$495) was the first of the microcomputer WP packages. Though somewhat improved over the years, it is es-

entially the same product as when first introduced. It is available for virtually every MS-DOS and CP/M machine. Few packages offer the number of features that Wordstar provides. Though able to produce highly professional-looking documents, Wordstar is almost universally regarded as difficult to learn and use. Its more than 120 commands require the use of codes (most of which are not mnemonically based). Wordstar can be integrated with various other applications, including Micropro's MailMerge and SpellStar modules (\$250 each). Because Wordstar is known so widely, many professionals purchase it, but it is much better suited to secretaries or, possibly, authors who are fastidious about their work's format and appearance.

Microsoft Word. Microsoft Word (Microsoft Corporation, \$475 with mouse, \$375 without) is one of the first microcomputer WP offerings to employ a mouse for command entry and windowing control (Apple's MacWrite for the Macintosh is another). Unlike MacWrite, which requires a mouse, Microsoft Word features an optional mouse. The option is a useful feature, for although a mouse greatly facilitates learning a new system, the seasoned user may long to bypass the mouse and issue keyboard commands in order to avoid always reaching for the device. Microsoft Word supports multiple windowing of up to eight simultaneous screens. The package offers more features than many WP packages, and like most high-function products, it is fairly difficult to learn. This is compounded by the product's complex command structure. Without the mouse, commands are highly keystroke intensive. Because of its complexity and richness of features, Microsoft Word is probably best suited for secretarial users.

Applewriter IIe. Applewriter IIe (Apple Computer Inc, \$195) is a machine-specific product. Other versions are available for Apple III and earlier Apple II systems. This moderately priced product is generally command driven, not menu driven. The document's appearance on the screen does not correspond exactly to the printed version, but printing can be directed to the screen for a preview. Business users will require an 80-column card to extend the system's standard 40-character print line.

Applewriter IIe includes its own Word Processing Language (WPL), which facilitates often repeated operations. The product is easy to use but lacks some of the more advanced features useful to secretaries, including multiple formats within a document, and is better suited to professionals or writers who do not need heavy text formatting and editing.

Wang Advanced PC Word Processing. Wang Advanced PC Word Processing (Wang Laboratories, \$295) is Wang's Office Information Systems (OIS) WP package translated for their Professional Computer. Consequently, it brings to the microcomputer user many of the OIS WP's strengths and weaknesses. For example, Wang PC WP offers Wang's traditional ease of learning and use but does not permit the seasoned user to bypass menus. Document appearance on the screen closely resembles the printed version. Spelling verification is standard, though somewhat cumbersome. The user friendliness of the software and the ergonomic hardware

design are excellent. However, the complete hardware-software combination is somewhat expensive. For those who are accustomed to or admire Wang WP, but either can't afford a Wang system or already have another system, several Wang clones are available, offering similar menus and editing capabilities. Most of these share many of the disadvantages of the Wang product—and introduce more of their own. Among the more popular Wang look-alike products are Multimate International Multimate WP, Leading Edge Products Leading Edge WP, and Office Solutions Inc. Officewriter. Wang PC WP is well suited to an office employing Wang office automation equipment, to users already accustomed to Wang, and to individuals requiring the speed and graphics advantages that Wang's PC holds over many others. Wang PC WP is very useful to authors, professionals, and secretaries in a Wang environment.

PFS:Write. PFS:Write (Software Publishing Corporation, \$125) is a basic WP package. It lacks many of the features that distinguish production-oriented systems. Complex formatting is not possible. The very nature of this product, though, makes it above average in ease of learning and use. It is best for such tasks as memo typing and consequently is aimed at professionals or, more specifically, managers.

SPREADSHEETS

With the possible exception of WP, spreadsheet programs are the most versatile and widely employed microcomputer software products. Spreadsheets lay out numerical (and non-numerical) information in a matrixlike cell format with formula relationships defined between cell entries. These programs permit users to perform what-if calculations by changing individual cell values, which causes the spreadsheet to instantaneously recalculate all entries based on the previously defined relationships.

The term *spreadsheet* connotes accounting, and accounting applications are among the most widely employed spreadsheet uses. However, because electronic spreadsheets are so easy to set up and revise, they can be used for any modeling or analytical purpose. For example, spreadsheets can be employed for budgets, forecasts, statistics, loan amortization calculations, rate-of-return calculations, break-even analyses, price lists, rate structures, portfolio analyses, and nearly all scientific and engineering applications. Spreadsheets represent a powerful tool for any ad hoc analytical purpose.

User Needs

As is typically the case with personal computing, the choice of a spreadsheet product involves various trade-offs. The new user, particularly one without extensive prior computing exposure, requires a package that is easy to learn and use. Without this quality, most new users never get started. As the user gains experience, however, he or she generally finds that more sophisticated capabilities are either helpful or essential. A good spreadsheet package has a design and documentation

style that fosters rapid assimilation by the new user yet offers more complex capabilities when that user needs and can master them.

Some users, however, are what might be called casual users: they employ a spreadsheet infrequently and never learn to use its more complex features. For these users, a less complex product with only the core spreadsheet features might make more sense, because they will never use many of the capabilities contained in a more expensive product.

Features. One drawback frequently associated with the more complex spreadsheet programs involves speed. As the number of features contained in the product increases, operating speed often (though not always) declines. Additional features almost always require additional memory. A basic spreadsheet program can operate with only 48K bytes of system memory, while the more powerful products may require 256K bytes or more.

The core of functions provided by even the most elementary spreadsheet program includes arithmetic, trigonometric, and other engineering calculations, as well as the ability to copy, move, or insert rows or columns. Most spreadsheets permit the resulting model to be stored in a format that other applications can use. That format is ordinarily an ASCII file, Document Interchange Format (DIF), or SYLK format. A spreadsheet package should permit the user to turn off the automatic recalculation feature to facilitate data entry, because as the size of a spreadsheet grows, the delay time after each cell entry grows as well.

More advanced spreadsheet packages have additional features, including on-screen help menus, the ability to link two or more spreadsheets for more complex models and to use models exceeding the capacity of the system's memory, and global search and replace capabilities. Other advanced features include multiple windows that permit several portions of a large spreadsheet to be viewed concurrently; the ability to lock horizontal or vertical titles in place for easy reference, sorting, and page scrolling; complex statistical calculations; displaying dollar signs and commas with numbers; right, left, and center justification of cells; and the ability to protect groups of cells from inadvertent revision. Other common and useful functions are relative cell addressing to retain intercell relationships when insertions or deletions are made, effective use of color, the ability to name cells and reference those names in formulas, and the ability to print cell formulas instead of cell contents to verify formulas and provide documentation of calculations.

Advanced printing features often include printing a designated screen load automatically, printing in various fonts and type styles, virtual memory (which uses disk storage to accommodate larger spreadsheets than will fit in memory at one time), and printing spreadsheets sideways to avoid having to paste several sheets together to form one document. Spreadsheets written expressly for 16-bit microcomputer systems

generally accommodate models larger than the approximately 64-row-by-256-column limitations of 8-bit systems. However, buyers should be aware that some spreadsheets have been translated from 8- to 16-bit versions but have retained the previous limits.

Product Evaluations

The following is a comparison between several representative and well-known spreadsheet products.

VisiCalc. VisiCalc (Software Arts, \$250) is the original electronic spreadsheet. The current version is fundamentally the same as the package that Software Arts created in 1979. Possessing few of the amenities of later and more complex products, VisiCalc nonetheless has been a perennial favorite, although sales have now begun to fade. The current version operates in 48K bytes of memory on Apple and runs in relatively little memory on Radio Shack, IBM, and many other microcomputer systems. It lacks complex formatting capabilities (for example, a user can change the width of a column only by changing all columns), lacks sorting, and cannot handle more than 64K bytes (and even less on some systems). Nevertheless, VisiCalc offers some advantages. First, its simplicity commends it to the casual user. Second, almost everybody who has used microcomputers for some time knows how to use it. Finally, it links with various other products to permit the user to extend its capabilities. Among the systems it links with are Paladin Software VisiTrend/VisiPlot, Visidex, and VisiSchedule. The Advanced Version VisiCalc (\$400) provides additional functions including support of 128K bytes of memory, comma numerical format, cell protection, net present value, table lookup, and an on-screen help menu.

SuperCalc. SuperCalc (Sorcim Corporation, \$195) has for several years been referred to as the VisiCalc of CP/M. It is Sorcim's answer to VisiCalc, and its features are comparable. It has similar advantages as well, including simplicity, interface with other DIF file-reading products, and compatibility with other Sorcim products. The more advanced SuperCalc 2 (\$295) runs on MS-DOS, and PC DOS, and some CP/M and Digital Research MP/M systems and has features that are somewhat similar to the Advanced Version VisiCalc version. Still another Sorcim product, SuperCalc 3 (\$395) is an integrated product providing data management and graphics capabilities.

Multiplan. Multiplan (Microsoft, \$275) is typically regarded as a second-generation spreadsheet program, able to serve both novice and experienced users. Numerous versions support Apple, CP/M, PC DOS, and MS-DOS, incorporating ease of use with more functionality than most packages. Advanced Multiplan features include linked spreadsheets, sorting, cell naming, relative cell references, complex formatting capabilities, and help features. Multiplan, however, does not run in color, nor does it provide any substantial graphics capabilities. On a 64K-byte microcomputer, the user has only about 18K bytes at his or her disposal, though that amount is sufficient for many users.

GRAPHICS

Until about 1983, the ability to produce high-quality computer-generated graphics was considered a luxury few could afford. The required equipment cost between \$15,000 and \$25,000, was complex, and had to be used by a specialist. As a result, the production of presentation-quality graphics was left to an in-house or outside graphics artist, who generally used manual methods to produce graphics. Currently, however, graphics packages are gaining popularity as costs decrease and programs become easier to use.

The microcomputer is the reason for the decreases in price. The versatility and economy of scale associated with widespread microcomputer use have provided an affordable means of producing low-cost, high-quality graphics. As microcomputer prices have declined for all the well-documented reasons, prices for output devices, peripherals, and software have declined as well. Depending on specific requirements, a user already equipped with a personal computer could add graphics capability for anywhere from \$500 to \$4,000.

At the same time, microcomputer graphics software has improved markedly. Not only are the capabilities significantly better, but the systems are easier to use as well. Most popular graphics systems for personal computers are now menu driven, making them accessible to the average user.

As business professionals become increasingly exposed to graphics, they are changing their view of it; no longer considered a frill, graphics is now seen as a valuable, even essential, business tool. People are beginning to value graphics capabilities because they clarify information presented at meetings and in published material, serve as an effective selling tool, condense the space required to contain data, and enhance analysis overall.

User Needs

Invariably, authors writing about business graphics divide the field into two principal subtopics: presentation graphics and peer-level (informational) graphics. Presentation graphics might be used by a sales representative making a presentation, a lecturer at a seminar, or a manager making a presentation to the company board of directors. Presentation graphics emphasizes the format of the information, providing sophisticated graphic variations, effective use of color or shading, and complex choices regarding textual portions of the graphics; it is frequently output to plotters or 35mm slides.

Peer-level graphics is used primarily for qualitative and quantitative analysis—to identify trends, digest data, spot problem areas. Although the main purpose of peer-level graphics is the accurate and simple depiction of data, it can be used in informal presentations; however, it lacks the sophisticated formatting output capabilities offered by presentation graphics. Printing, plotting, or simply displaying the graphs on a terminal are the principal output methods.

There are, of course, other portions of the graphics market, such as animation, banner makers, and PC-based computer-aided design, but they will not be addressed in this article.

The decision of which graphics software to choose depends on who will be using the software. One type of software is appropriate to the typical microcomputer user, while another is appropriate to the professional graphics artist. Generally, only the graphics artist can afford the time to learn a highly sophisticated, versatile professional presentation-quality graphics system. The typical microcomputer user will be reasonably content with an easy-to-use standalone graphics product, or an integrated multifunctional system that includes graphics.

Features

In shopping for graphics software, buyers should determine the hardware limitations imposed by even the most sophisticated graphics packages. For example, a product designed for the IBM Personal Computer may require a particular plotter or printer, printer interface board, monitor, graphics board, or input system (e.g., a digitizing tablet or light pen).

Output choices are expanding. Dot matrix printers with graphics capabilities are versatile and effective printing systems, and prices are declining for single- and multiple-pen plotters, ink-jet printers, laser printers, thermal printers, and 35mm slide production. Slides can be produced on such systems as the Polaroid Palette system, the Digital Research Image Maker, or the Lang System VideoSlide 35. An alternative to in-house slide production is producing draft graphics locally (through a matrix printer or plotter), but transmitting to a graphics specialist such as Dicom Systems for the production of sophisticated slides or transparencies.

Graphics display formats include the following:

- Point plotting and line graphs
- Equation plotting (with the ability to superimpose multiple equations)
- Bar charts, which include clustered bars, stacked bars, three-dimensional bars, stacked objects such as coins or user-defined objects, horizontal and vertical bars, and hanging bars
- Pie charts, with exploded pieces or a single separated wedge
- Multigraph display
- Simultaneous graph and data display
- Histograms (frequency distributions)
- Flowcharts
- Organizational charts
- Text graphics production (primarily for slides and overhead projection)
- Statistical graphics
- Gantt/scheduling charts
- Scatter diagrams

Software features ultimately affect the graphics output. The following questions should be answered when graphics software is being considered:

- What printers, plotters, and other output methods are supported?
- Are both color and monochrome screens supported? How many colors?
- How many shading/cross-hatching combinations are available, and are they user controllable?
- Is there a library of graphic "icons" that can be embedded in the display?
- Is slide-show capability supported through the personal computer?
- Are multiple type styles, type sizes, and custom fonts supported? Are foreign-language fonts available?
- What shape-generation capabilities (circle, square, ellipse, etc.) are provided?
- What alternatives exist for marking plotted points?
- Can text be included within symbols?
- Can the graph be rotated on the screen? Can text be rotated on the screen?
- Can graph size be modified?
- Is 40- or 80-column text supported?
- Are DIF, SYLK, ASCII, Lotus, and dBase formats supported?
- Under what operating system does the package run?
- Can background grids be superimposed?
- Is the system menu driven?

Many microcomputer experts believe that standalone graphics will eventually lose considerable ground to the integrated packages. The integrated systems will grow in capability (though at a cost of increased complexity), while the standalone systems will either become adjuncts to amplify the capabilities of the integrated product or be directed toward the graphics artist and other specific markets. For the next several years, however, standalone packages should continue to do well because of the limitations of the integrated systems (a topic discussed later in this article).

Product Evaluations

Following are evaluations of two contrasting standalone graphics packages. The first is a peer-level system, while the second produces presentation-quality graphics.

PFS:Graph. PFS:Graph (Software Publishing, \$125 to \$140, depending on the computer system) is an elementary, straightforward graphics system that can produce most commonly used graphs. It operates within 128K bytes on IBM and MS-DOS machines, 64K bytes on Apple II, and requires one diskette drive; thus, it can function on the entry level of most microcomputer configurations. It can be used in conjunction with a choice of 12 different printers and six different plotters. Data can be entered directly from the keyboard or transported from other systems using the DIF file format. PFS:Graph provides disk support.

Graph formats supported include pie, vertical and horizontal bar (with stacking), histograms, and line charts. Line and bar charts can be superimposed. 80-column text is supported. Labels can be entered in various locations, but formatting generally is limited. Text and graphs cannot be rotated, enlarged, or

reduced. Scaling is automatic but can be overridden. Most functions are command driven. No more than four sets of x-y coordinates can be displayed at one time.

PFS:Graph, then, is both easy to learn and easy to use. This low-cost, limited-capability peer-level graphics system makes no pretension to presentation-quality graphics.

Fast Graphs. Fast Graphs (Innovative Software Inc, \$350), is a full-featured text and graphics production system for IBM and IBM-compatible personal computers. It requires 128K bytes of memory, two double-sided diskette drives, or one diskette in conjunction with a disk. It can be used with about 24 different printers and about 15 different plotters. Data can be entered on the keyboard or supplied from ASCII or DIF files. Fast Graphs uses menus extensively, as well as programmable function keys.

For text charts, 80-column display is supported. Text size can be altered, but text cannot be rotated and special fonts are not supported. Symbols such as boxes, circles, and radii are provided. Special pixel symbol drawing is supported through cursor control, so the user can construct templates or logos. A slide-show capability allows the user to display up to 18 charts or graphs in a controlled sequence, with timing between views, and method of transition between slides under the user's discretion.

The chart graphics capabilities include single, stacked, clustered, horizontal, vertical, hanging, or three-dimensional bar charts; pie charts (with pulled-out slice option); point or line graphs; histograms; and least-squares plots. Auxiliary input devices (light pens, digitizing tablets, or mice) are not supported. The system offers flexibility regarding the location of text on the chart, but the size and style of labels are fixed. Plotted points can be marked with symbols of the user's choice, but not with labels. Captioning is supported. Scaling is automatic but can be overridden. A grid can be superimposed, and graphs can be superimposed over a background of the user's design. Double-size and shadow printing are possible.

This product offers many more features than the PFS offering and costs considerably more. In addition, the user must contend with more complexity. In exchange, the user gains what is, for some at least, presentation-quality graphics capabilities.

COMMUNICATIONS

Of the five most popular microcomputer applications, communications probably ranks fifth. This is the result of the somewhat higher cost of communications software and hardware, their slightly higher complexity, and their generally poorer documentation. However, as microcomputer users increasingly need to exchange information and access data bases, communications products are gaining popularity.

Space limitations do not permit this article to provide a tutorial on the concepts of communications. Other articles in the

series will prove helpful in this respect, as will numerous books on the subject. Some examples are *The Complete Handbook of Personal Computer Communications*, by Alfred Glossbrenner (New York: St. Martin's Press), *The Small Computer Connection*, by Neil Shapiro (New York: Micro Text Publications) and *Getting On Line: A Guide to Accessing Computer Information Services*, by M. David Stone (Englewood Cliffs NJ: Prentice-Hall). A thorough introduction to communications concepts can be found in *Fundamentals of Data Communications*, by Jerry Fitzgerald and Tom S. Eason (Santa Barbara CA: Wiley/Hamilton, 1978 and later editions).

Applications

The following communications activities are some of the ones currently being pursued by microcomputer users in business:

- Transferring files and programs between similar or dissimilar personal computers
- Transmitting and receiving electronic mail messages (using commercial or private corporate networks)
- Accessing common carriers for TWX, Telex, Mailgram, or MCI Mail use
- Accessing Teletex
- Accessing corporate mainframes for various purposes
- Accessing commercial data bases such as Westlaw, Dow Jones News Service, and The Source
- Using commercial or private bulletin board services
- Inquiring about or making airline reservations
- Using commercial or in-house time-sharing services
- Emulating a terminal on a company host to access specific applications
- Submitting a résumé, looking for a job, or searching for a job applicant
- Participating in a personal computer users group

As with the purchase of any microcomputer equipment, buyers should determine their specific needs before spending money on communications hardware or software. Unfortunately, there is no single set of products that will satisfy every possible communications application.

For accessing commercial data bases and time-sharing services, as well as handling most microcomputer-to-microcomputer and bulletin board applications, a low-cost asynchronous modem is required. Although it is possible to get by with 110- or 300-bits-per-second transmission speeds, most users will prefer (or wish they had purchased) a modem that can operate at 1.2K bits per second. Modems that can operate at still higher rates are considerably more expensive and may be incompatible with the transmission speeds of the modems at the other end. Such general-purpose communications control programs as Hayes Microcomputer Products' Smartcom II, Microstuff's Crosstalk, or Southwestern Data Systems' ASCII Express series should prove adequate for most systems.

To transfer data between dissimilar microcomputers, the system requires specialized communications software. For example, Alpha Software's The Apple-IBM connection allows

the interchange of information between the Apple II and the IBM Personal Computer by modem or direct connection. The principal types of file transfers supported are DIF files or Wordstar text files.

For host-to-microcomputer communications, the situation is more complex and expensive. A user may have several objectives, each requiring a different solution. Perhaps the easiest application is access to the company's time-sharing system. Frequently, this access can be achieved with the same asynchronous hardware and software products mentioned earlier. In some cases, there will be additional requirements to emulate a particular asynchronous terminal, such as an IBM 3101 or 2741, or a Digital Equipment Corporation VT100; many general-purpose asynchronous software packages will accommodate these requirements as well. Remote job entry (remote batch) applications usually require a binary synchronous protocol such as IBM's 2780/3780.

Some host systems, including those operating only in the IBM SNA/SDLC environment, require more sophisticated modems or software. The user should confer with his or her data center staff to determine what is required to operate in a bisynchronous or SNA environment. Many firms committed to such environments are considering protocol converters to link their 3270/SNA systems with asynchronous devices. Such an arrangement not only permits personal computer access at lower cost but also provides added security.

Products that facilitate host-to-microcomputer connections are beginning to emerge. One type of product provides a bridge from a fourth-generation language on the host to a microcomputer version of the same product. Then, with the help of the programming staff, data can be extracted and downloaded. Another type links the host data base management system (DBMS) to a microcomputer spreadsheet or data base product. For the most part, all of these products are harder to use than the average microcomputer product and, at least initially, require help from the company systems or programming staff. Host-microcomputer products are currently of considerable interest to DP users, so the link between microcomputer and mainframe should become less complicated in the near future.

Evaluation Criteria

When adding communications capabilities to an already installed microcomputer, the prospective buyer should consider the questions listed below. It is important to solicit answers from the software supplier, the modem supplier, and the supplier of the services the user is interested in accessing. It should be noted that not every question is appropriate to every application.

- What hardware and software are required to make the microcomputer work with the desired application?
- Which modems will work with this application? How will different modems affect the application?
- What baud rates are supported?
- What terminals can be emulated?

- Which printers and printer controllers work with this program?
- Does the program have a printer buffer?
- Does the program support autodial/redial, touchtone, and rotary dial?
- Does the program support even, odd, and no-parity stop bits?
- What protocols are supported?
- Is there an echo/nonecho option?
- What word lengths are supported?
- Will the program work with the system's clock for unattended operation?
- Will it work in 80-column mode?
- What error-detection/retry features, if any, are supported?
- Can data be captured on disk as it is received?
- Can parameters for various information services be stored on disk?
- Can the user scroll back to review a screen?
- Does the software have a help facility?
- What operating system is required?
- Is there an in-system text editor?
- How much memory is required?

By all means, communications software and hardware should be tested before purchase. This may require taking the microcomputer to the dealer in order to have the desired configuration available for the trial.

DATA BASE MANAGEMENT

A personal computer is a data processing product. It follows, then, that specialized means of handling data would be popular. Data manipulation is essentially the job of the operating system, but operating systems are unable to manipulate large amounts of data. A DBMS, then, provides a way to readily create, edit, sort, select, format, and summarize data.

Microcomputer DBMSs are, of course, directly descended from mainframe DBMSs. Taken in this context, microcomputer DBMSs are something of an anomaly. One of the principal purposes of a mainframe data base system is to provide a common base for shared data (hence the name); but a microcomputer is, with few exceptions, a standalone device. Nevertheless, users of microcomputer DBMSs have found these programs to be of significant utility, even in a standalone environment. Furthermore, several of the most popular DBMS products have been successfully implemented on multiuser microcomputer systems.

Product Classifications

There are several subclasses of microcomputer data base products. A differentiation is often made between file management products and true DBMSs, although this distinction is, in a sense, artificial—a DBMS (regardless of the number of files that can be accessed simultaneously) is a package that provides data management tools. In general, file management systems are significantly less powerful and much easier to use (usually menu driven) than other DBMS programs. File man-

agement systems operate only on a single file at a time and provide the functions of file definition, data entry, sorting, and creation of simple reports and mailing labels. The less powerful versions are limited to a file size that fits within available memory, while stronger versions utilize a disk for a virtual memory method, permitting larger files. More powerful systems often allow indexing for direct access to more than one data element. Examples of file management software products include VisiCorp's VisiFile, Systems Plus Inc's FMS-80, and Software Publishing's PFS:File.

File management products are often referred to as computerized card files. Used in this way, however, they are of little value. A 79¢ package of three-by-five cards will work quite effectively if only one-way access is required. File management products make more sense if user applications include selective retrieval of lists in potentially more than one order, preparation of mailing labels, or arithmetic summarization. A typical application is a program library, which allows programs to be reordered or selected on the basis of title, type, language, disk volume, or some other criterion. Indeed, specialized products are available that perform these functions by reading the catalog into the file directly from each disk.

Hierarchical and network DBMSs are the closest in structure to mainframe data base systems. They employ a tree or network-type data base structure. Their logical and physical designs are difficult to grasp, and, as a class, these systems are both the most difficult to learn and use and the most powerful of the microcomputer DBMSs. Examples include Software Store's INFO 80, Innovative Software's Fast Facts, and Sierra On-Lines's General Manager.

The most prevalent type of DBMS is the relational DBMS. These DBMSs use relationship tables to establish connections between data elements. Easier to learn and use than hierarchical network DBMSs, they are usually equipped with a command language that allows the user to operate on an entire data base with a single command. Some are menu driven, and others use both commands and menus.

Relational DBMSs have the further advantage of allowing a data base structure to be initially established in a simple manner and later modified to an increasingly more complex structure. Generally, relational systems permit more than one file to be referenced. Examples of relational products include Condor Computer Corporation's Condor 3, Ashton-Tate's dBase II and III, and Microrim's R:base 4000.

Features

DBMSs have many uses, and the type of package that can best support a particular application will vary accordingly. The following features should be considered when users compare data base products, although not all features are essential to all applications:

- Single- or multiple-file system—If multiple, how many files can be accessed for an inquiry? Can data be transferred from one file to another?

- Processing speed (this is affected by the CPU, language, operating system, and access method).
- Minimum hardware configuration (operating system, memory, disk or diskettes, printers).
- File restructuring capability.
- Availability of online help facility.
- File compatibility with other products (WP, spreadsheet, graphics, statistics, communications).
- Error handling capabilities.
- Password protection.
- Amount of storage supported (diskette, disk).
- Query facilities (searching multiple fields, wild-card searches, ability to see number of records selected before viewing actual records, treatment of upper- and lowercase versions).
- Arithmetic features (mathematic and algebraic facilities, derivation of one field from another).
- Support for 80-column display.
- Mailing list management and mailing label preparation.
- File design features (record naming, entry edit checks, multipage entry).
- Ease of data entry—Text editing and revision features.
- Indexing capabilities.
- Ability to store command sequences.
- Report generation capabilities—Amount of flexibility in formatting reports, extent of calculations available in reports, ability to print on preprinted forms.

Product Evaluations

The following section examines an uncomplicated file management system and a popular DBMS. These products reflect the range of data base capabilities available to microcomputer users. Each has appropriate uses; one is not inherently superior to the other.

PFS:File. PFS:File (Software Publishing, \$140 for IBM Personal Computer version) is a straightforward, menu-driven file management system for IBM PC DOS, MS-DOS, and Apple DOS 3.3. To employ it, the user creates a form for entering (and later updating) the data. The program uses a variable records structure that permits searches for data or text string combinations. No data input editing is performed, and report generation capability is very limited. There is no command language. Tests of equality "less than," "greater than," and "not" are supported, as are wild-card searches.

The product's weakness in report generation is partially rectified when PFS:Report (\$140) is added. This product provides some capabilities in producing reports containing control breaks, including totaling, counting, and averaging. Reports are limited to two sort fields and 16 columns of data within a report. Report titles are limited to one line.

This product is best suited to the casual user with limited, straightforward needs for small-file manipulation. Its greatest strengths are its ease of use and its integration with other PFS: products. However, its limitations preclude it from consideration in applications of any complexity.

dBase II and dBase III. At the opposite pole are dBase II and dBase III (Ashton-Tate, \$495 and \$695, respectively). dBase II was originally developed in 1981 for CP/M-based Z80 microcomputers, and more than 200,000 copies have since been sold. It has aged well and is still among the most powerful relational DBMSs. Its longevity makes it a standard against which other data base products must be compared. It is available for CP/M, MP/M, PC DOS, MS-DOS, CDOS, CROMIX machines, and even Apple (if equipped with SoftCard or another CP/M card).

dBase II is written at two levels. For simple projects (and inexperienced operators), there is a form-prompted setup. More elaborate data bases and data extraction operations require the use of a programming language resembling structured BASIC. The product is almost entirely command driven.

The product can handle up to 65,535 records per file, 32 fields per record, with a total of 1,000 bytes or less per record. Fields can be up to 254 characters long. The record limitation is a legacy of its 8-bit origins. It has excellent editing and error-detection capabilities.

dBase II is easy to use and difficult to learn, although the tutorial disk is helpful. The user needs solid programming skills to effectively utilize dBase II or III. In return, the user gains an extremely powerful (though relatively slow), flexible data base product that has been used to establish such highly sophisticated applications as payroll, general ledger, and inventory systems.

dBase III, which provides menu- and command-driven access to more than a billion records per data base, 128 fields per record, 4,000 characters per second, variable length text fields, and mailing list generation, also offers faster speed than dBase II. dBase III is designed for 16-bit PC DOS machines. To circumvent the programming language difficulty, program generators such as Fox & Geller's Quickcode have been developed.

INTEGRATION

Microcomputer hardware advances have enabled products to be developed that go beyond the single-application concept. Specifically, the introduction of 16-bit machines, (which permitted addressing more than 64K bytes of memory), the availability of low-cost, larger-sized RAM, inexpensive Winchester disks, and the emergence of a predominant industry leader (IBM) have allowed much more comprehensive products to be designed and marketed.

Integrated Products

In 1982, Context Management Systems introduced their MBA product, which gave the user access to WP, data base, graphics, spreadsheet, and communications programs within a single system with a common command structure. Although later systems (including another from Context) offered greater

functionality and ease of use, Context MBA inspired a new class of microcomputer products.

In some ways, integrated products have been with us since the early days of microcomputers. In a sense, the operating system is an integrating product, for it offers common commands for such functions as filing, retrieving, and cataloging. In addition, it provides common file structures that offer the possibility of data exchange between applications. The first generation of integrated products required the user to establish intermediate files with a standard format, thus permitting access by several products in a family. This is the approach taken by Paladin Software, which permitted VisiCalc, Visi-Schedule, Visidex, VisiFile, and other products in the series to use Software Arts' DIF file format to interchange data. Software Publishing has taken the same approach with its FFS: series.

Although a standard format was a useful step toward product integration, each of the linked products still had its own series of commands, which in some cases contradicted commands in the other applications. Furthermore, the process of filing off a data set, booting another application, and reloading the data was time-consuming and tedious. The all-in-one approach of MBA and such products as Lotus 1-2-3 overcame that objection.

Lotus, in introducing a solid product to meet the strong market demand, has produced one of the best-selling microcomputer application programs to date. There have been numerous integrated products introduced since, but none has matched Lotus's sales performance. This product provides spreadsheet, graphics, and data base functions using a very flexible, menu-driven approach. The core application, around which the other functions are constructed, is the excellent spreadsheet package. Lotus 1-2-3 provides virtually every possible spreadsheet capability. The structure is easy to learn and flexible enough for almost any application. The graphics program accepts data from the fields of the spreadsheet. The graphics capabilities, though not spectacular, are passable. The data base program provides sorting, searching, selection, and some statistical functions. Nevertheless, Lotus 1-2-3 does not offer WP capabilities. Perhaps the strongest features of this product are its excellent documentation, online context-sensitive help facility, tutorial disk, and consistent and logical command structure.

Other all-in-one vendors have chosen to offer additional functions, including form generation, outline generation, spelling verification, project management, calendaring, auto-dialing, or statistics.

User-Friendly Technology

Several trends in user-friendly technology have recently emerged; these include windowing, mice, metaphors, and icons. Windowing is the capability to split the screen into multiple subscreens, which permits the simultaneous viewing of different files or separate parts of the same file. Windowing is

accomplished by two techniques: overlapping windows resemble stacks of papers on a desk, while tiled windows are located side by side, like ceramic tiles. The mouse is becoming a popular pointing technique to address areas on the screen. The mouse is easier than other addressing techniques for the beginner to adapt to, though it is likely to slow down the more fluent user. The metaphor technique sets up common operations as analogs to common office activities, so that the screen resembles, for example, a desktop or file cabinet. Icons are frequently used in conjunction with the metaphor, depicting the user's choices through symbols rather than menu choices. The mouse is the favored pointing device when icon commands are employed.

Integrating Products

Another means of achieving integration of function is through integrating products. Integrating products provide a master control program (a sort of operating system on top of the standard operating system) that performs integrating functions between several independent programs. These products serve to handle routine housekeeping functions (opening and closing files) and windowing chores, allow for transparent file transfer, and protect the user from the generally "user hostile" operating system commands.

Some integrating products integrate only the vendor's own product line. An example is Schuchardt Software System's InteSoft product line. This approach can lead to more consistent command structure than with an integrator that attempts to link products from various vendors.

Multivendor integration is provided by various integrating products, including Quarterback Software's DESQ, Microsoft's Windows, and Software Arts's VisiON. These open-ended systems permit the user to integrate, to varying extents, many popular single-function systems in a common environment. Each system permits the user to exit one operation and enter another with ease. The degree of uniformity of commands depends on both the integrator and the applications being integrated. Users can generally expect better integration from those applications developed by the vendor of the integrating product than from third-party applications software.

Purchasing Considerations

Should microcomputer users at this point choose a standalone product or one that integrates all the product functions? The answer for most users must be a standalone system, because the price of integration is too high.

Integrated products frequently require hardware upgrades. Although many standalone products (e.g., WP or spreadsheet) operate effectively in 128K bytes of memory, the integrated/integrating systems frequently require 256K to 512K bytes or more. Some also require at least a 5M byte disk (and use most of the storage space). Graphics capabilities could require a color graphic printing monitor for display, and a matrix printer might be preferable for word processing. A mouse is required

for many products. A VisiON user, for example, would need a mouse and applications manager, and would probably purchase VisiON Calc, Graph, Word, and Query. The total package could cost nearly \$2,500, excluding any memory, disk, or other hardware modifications that would be necessary.

An integrated system with five major functions is certainly easier to learn than five separate packages—particularly if those packages are provided by separate vendors and offer exclusive command structures. However, for the user requiring only spreadsheet and WP packages, the integrated system may in fact be more difficult to master than the two standalone packages. Furthermore, the two individual packages would probably cost less than the integrated offering.

The design of an integrated/integrating product involves many compromises. The ideal command structure of a data base may bear little resemblance to the commands of a word processor, and the designers must work within constraints of space and simplicity. Accordingly, each of the main functions in an integrated system may end up being less powerful than in a comparable standalone version. For example, a graphics program in an integrated system might be able to produce eight types of graphs, while a standalone graphics system might produce twenty or more.

Nevertheless, some microcomputer users are best served by integrated software. For example, a person in charge of evaluating corporate acquisitions and presenting recommendations to senior management might utilize the spreadsheet, graphics, WP, and asynchronous communications of the Lotus Symphony product. But a writer might wish to give up those other capabilities in order to have a fully featured WP program. The ability to superimpose graphics, text, and tabular calculations on the same page may be impressive, but it has a high price.

PURCHASING GUIDELINES

The following three suggestions for microcomputer software buyers are appropriate to any type of software:

1. Try the product. Do not rely on a salesperson's word or on a canned demonstration. If the buyer is not the prospective user (which is often the case with WP), then take the user along.
2. Do not make price the primary purchasing consideration. The relatively small price increments that can be saved are quickly offset by the time users waste resolving early problems. Also, dealer support is worth more than a few dollars saved.
3. If the products under consideration seem unusually confusing, bear in mind that there is a general correlation between the quality of the product and the quality of its documentation.

FUTURE SOFTWARE TRENDS

In the future, integrated software systems will probably prevail. As memory and storage become progressively less expensive, as multitasking operating systems become widespread, and as increasing intelligence within the machine

eliminates some of the complexity encountered today, the major functions of integrated systems will rival dedicated products. Still, for now, standalone products can be expected to continue to garner a significant portion of software sales in the five major application areas.

INTEGRATED APPLICATIONS

Compatibility Matrix

208.0025.001

Vendor/Package	Compatible Operating Systems														Others	
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System		Unix
Alpha Software Data Base Manager II—THE INTEGRATOR							•									
Ashton-Tate Framework							•									
Business Solutions Jack2 The Incredible JACK	• •						•									
Computer Associates CA-EXECUTIVE							•									
Context Management Systems Context MBA Corporate MBA							• •		• •					•		
Emerging Technology Consultants OFFIX							•		•							
Executec SeriesOnePlus					•		•		•						• •	
Graphicon Software Inview							•									
Lotus Development Lotus 1-2-3 Symphony							• •		•							
MicroPro International StarBurst			•		•		•		•							
Microsoft Microsoft Windows									•							
Mosaic Software Integrated-6							•									
North American Business Systems Memory/Shift							•									
Onyx Systems The ONYX Office															•	
Peachtree Software Decision Manager PeachText 5000							• •		•							
Quarterdeck Office Systems DesQ							•		•							
Softrend Aura									•							
Software Products International Open Access							•									

Vendor/Package	Compatible Operating Systems														Others	
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System		Unix
Sorcim SuperCalc3							•									
Structured Systems Group (SSG) WindowMaster					•		•		•							
Trillian Computer VisuALL							•									
VisiCorp VisiON							•									
XYZT Computer Dimensions NICE													•			

INTEGRATED APPLICATIONS

Features Matrix

208.0030.001

Vendor/Package	System Capabilities							
	Data Base Management	Graphics	Spreadsheet Modeling	Terminal Emulation	Word Processing	Multitasking	Mouse Based	Operating Environment Windowing
Alpha Software Data Base Manager II—THE INTEGRATOR	•							
Ashton-Tate Framework	•	•	•		•			• •
Business Solutions Jack2 The Incredible JACK	• •	• •	• •		• •			
Computer Associates CA-EXECUTIVE	•	•	•	•	•	•	•	•
Context Management Systems Context MBA Corporate MBA	• •	• •	• •	• •	• •			
Emerging Technology Consultants OFFIX	•				•			
Executec SeriesOnePlus	•	•	•	•	•			•
Graphicon Software Inview							•	• •
Lotus Development Lotus 1-2-3 Symphony	• •	• •	• •	•	•			•
MicroPro International StarBurst								•
Microsoft Microsoft Windows							•	• •
Mosaic Software Integrated-6	•	•	•	•	•			
North American Business Systems Memory/Shift						•		•
Onyx Systems The ONYX Office	•		•		•	•		•
Peachtree Software Decision Manager PeachText 5000	•	•	• •	• •	• •		•	•
Quarterdeck Office Systems DesQ						•	•	• •
Softrend Aura	•	•	•	•	•			
Software Products International Open Access	•	•	•	•	•			•



Vendor/Package	System Capabilities								
	Data Base Management	Graphics	Spreadsheet Modeling	Terminal Emulation	Word Processing	Multitasking	Mouse Based	Operating Environment	Windowing
Sorcim SuperCalc3	.	.	.						
Structured Systems Group (SSG) WindowMaster								.	.
Trillian Computer VisuALL							.	.	.
VisiCorp VisiON	
XYZT Computer Dimensions NICE	.						.		

INTEGRATED APPLICATIONS

Product Summaries

ALPHA SOFTWARE

30 B St
Burlington MA 01803

(617) 229-2924

► Data Base Manager II—THE INTEGRATOR (DBM II)

A file management system that links to other programs

Price \$295 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, and compatible systems. Main storage: 128K bytes (PC DOS 1.1), 192K bytes (PC DOS 2.0). Source language: Compiled BASIC.

Capabilities Menu-driven, single-file DBMS with phonetic word searching, multilevel sorting, date calculation, and simplified file restructuring. Reads and writes Lotus 1-2-3 WKS (worksheet) files, Microsoft Multiplan Symbolic LinK (SYLK) files, and VisiCorp VisiCalc Data Interchange Format (DIF) files. Interfaces directly to any PC DOS-based word processor, including MicroPro WordStar, Lifetree Volkswriter, and Softword MultiMate.

Description With its sophisticated menu-driven DBMS, DBM II allows users to integrate any application program for use in spreadsheet modeling, merged mailings, graphics, and other applications. In addition to supporting a variety of the data transfer formats used by microcomputer application programs, DBM II also features a proprietary Data Exchange Format for accessing data from mainframes or minicomputers.

The DBM II data base program stores records of up to 40 fields of 60 characters each. The number of records is limited only by disk space. The data base program allows users to reconfigure and merge partial or entire files. DBM II is available in a French version.

Compatibility Matrix: 208.0025.001

Features Matrix: 208.0030.001

ASHTON-TATE

10150 W Jefferson Blvd
Culver City CA 90230

(213) 204-5570

► Framework

An integrated, multifunction productivity program

Price \$695 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT. Main storage: 256K bytes. Source language: not specified.

Capabilities Centralized window management facility allows WP, spreadsheet modeling, business graphics,

and forms processing functions to be displayed simultaneously. DOS access facility enables PC DOS software to be run from within Framework. Compatible with Ashton-Tate dBASE II and dBASE III DBMS data files.

Description Framework includes a full-featured word processor, an electronic spreadsheet, a business graphics system, a forms-oriented data manager, and a unique outline generator in a tightly integrated framing system. The Framework outline processor organizes information into specific topics. Topic headings are then displayed as a numbered outline; each specific topic headline can be expanded to become a full spreadsheet model, WP document, or graph.

Framework also features Fred, a procedural language based on straightforward commands that can be used to develop applications.

Compatibility Matrix: 208.0025.001

Features Matrix: 208.0030.001

BUSINESS SOLUTIONS

60 E Main St
Kings Park NY 11754

(800) 645-4513
(516) 269-1120

► Jack2

An integrated application program

Price Purchase (including run-time p-System): \$495 (IBM Personal Computer), \$395 (Apple IIe)

Environment Computers: IBM Personal Computer, Apple IIe running under UCSD p-System. Main storage: varies. Source language: Pascal.

Capabilities Produces electronic spreadsheet models up to 255 characters wide. WP features global search and replace, paragraph move and copy, highlighting, and right margin justification. Numeric mode for constructing spreadsheets within text. Personal filing, with up to 1,000 records per file. Boolean and conditional operators on records and spreadsheet models. Forms generator allows creation of mailing labels, invoices, and merged-mail form letters. Business graphics produces bar and scatter charts.

Description Jack2 is an integrated, multifunction software package that combines WP with electronic filing, business graphics, and spreadsheet modeling. All functions from the built-in applications programs are simultaneously available to the user.

Compatibility Matrix: 208.0025.001

Features Matrix: 208.0030.001

BUSINESS SOLUTIONS

60 E Main St
Kings Park NY 11754

(800) 645-4513
(516) 269-1120

► The Incredible JACK

An integrated program with spreadsheet, WP, and personal filing functions

Price \$179 purchase

Environment Computers: Apple II and IIe, Franklin ACE 1000. Main storage: 64K bytes. Source language: Pascal.

Capabilities Supports 80-character cards. WP features right margin justification, word wraparound, and paragraph move and copy. Documents of up to 60 pages. Diskette-oriented filing system that stores 1,000 records per file, 100 fields per record. Searches and sorts records by partial character strings and multilevel matching. Forms generator allows creation of mailing labels, invoices, and merged-mail letters. Spreadsheet modeling with arithmetic and Boolean functions. Formulas can be constructed using variable names rather than cell coordinates. Conditional logic.

Description The Incredible JACK combines simple spreadsheet modeling, advanced WP, and flexible electronic filing. The package allows users to easily extract information and text from each application program and consolidate it into documents or reports.

Compatibility Matrix: 208.0025.001
Features Matrix: 208.0030.001

COMPUTER ASSOCIATES

125 Jericho Turnpike
Jericho NY 11753

(800) 645-3003
(516) 333-6700

► CA-EXECUTIVE

An integrated executive workstation program

Price \$1,295 purchase (volume discounts available)

Environment Computers: IBM Personal Computer and Personal Computer XT. Main storage: 256K bytes. Source language: not specified.

Capabilities Provides executive productivity functions, such as spreadsheet modeling, data base management, WP, graphics, and telecommunications, under a window manager that allows concurrent operation of multiple functions. Command selection through mouse or keyboard. Uses color display. Compatible with the Computer Associates CA-UNIVERSE mainframe relational DBMS.

Description CA-EXECUTIVE supports the analytical and communications tasks required of an executive workstation in a distributed DP environment. The CA-EXECUTIVE system includes:

- CA-LINK—A microcomputer-mainframe link that enables uploading or downloading of data files

- CA-DBMS—A relational DBMS with security to the field level and a built-in report writer
- CA-WRITER—The Information Unlimited Software EasyWriter II WP system, with spelling checker and mailing manager
- CA-CALC—An electronic spreadsheet fully integrated with CA-DBMS for report preparation
- CA-GRAPH—A business graphics utility that transforms data from the other CA-EXECUTIVE programs into bar, pie, and line charts, which can then be incorporated into WP documents or spreadsheet models
- CA-EDIT—A full-screen text editor for editing data files or programs
- CA-FORM—A screen form generator
- CA-TUTOR—An online tutorial.

Compatibility Matrix: 208.0025.001
Features Matrix: 208.0030.001

CONTEXT MANAGEMENT SYSTEMS

23864 Hawthorne Blvd
Suite 101
Torrance CA 90505

(213) 378-8277

► Context MBA

An integrated modeling, graphics, WP, and DBMS program

Price \$695 purchase

Environment Computers: IBM Personal Computer and various Hewlett-Packard microcomputers. Main storage: 256K bytes. Source language: not specified.

Capabilities Performs calculations on spreadsheets of up to 95 columns by 999 rows. Inserts, moves, and deletes rows and columns of cells. Produces pie charts, line and area graphs, bar graphs, and scatter graphs. Supports up to four windows. Spreadsheet models, graphs, and text can be displayed and edited simultaneously in separate windows. Sorts records in ascending or descending order. Help facilities. Search function in WP mode.

Description Context MBA integrates several functions, including graphics, modeling, WP, and data base management. It includes a forms generator for use with the data base and spreadsheet. Users can communicate directly with remote mainframes from within the program to exchange models and data.

Compatibility Matrix: 208.0025.001
Features Matrix: 208.0030.001



CONTEXT MANAGEMENT SYSTEMS

23864 Hawthorne Blvd
Suite 101
Torrance CA 90505

(213) 378-8277

► Corporate MBA

An integrated, multifunctional program

Price \$895 purchase

Environment Computers: microcomputers running under MS-DOS. Main storage: not specified. Source language: Pascal.

Capabilities Spreadsheet modeling, business graphics, full-function WP, and data management. Split-screen editing. Supports IBM 3270 terminal emulation for uploading and downloading data files from remote mainframes. Includes data exchange facility to read and write files compatible with MicroPro WordStar, VisiCorp VisiCalc, or Ashton-Tate dBASE-II.

Description Corporate MBA is an upgraded and extended version of Context MBA that has been configured to run directly under MS-DOS rather than under the UCSD p-System. Corporate MBA runs faster than previous versions of Context MBA and combines sophisticated WP and data communications facilities with spreadsheet, data base, and graphics programs. Corporate MBA also supports a command macrofile capability; users can combine a series of frequently used commands into a file that can be stored for later execution.

Compatibility Matrix: 208.0025.001
Features Matrix: 208.0030.001

EMERGING TECHNOLOGY CONSULTANTS

2031 Broadway
Boulder CO 80302

(303) 447-9495

► OFFIX

A file and office document management system

Price \$99 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT; Texas Instruments Professional Computer and Victor 9000 under MS-DOS. Main storage: 192K bytes. Source language: Pascal.

Capabilities Menu driven. Help screens. Full on-screen documentation. Word processing. Electronic filing. Report generation. Complete control over input screen and forms design.

Description OFFIX simulates office filing procedures that allow users to create and manage text documents and data files. OFFIX uses pictorial displays to guide the user. The hierarchical filing system features two simulated filing cabinets, each with three drawers. Each drawer contains up to 100 file folders, and each file folder holds up to an entire diskette of data.

The WP module of OFFIX can edit documents of up to 100 pages. The report generator enables users to design business forms and perform sorting and arithmetic functions on the data base.

Compatibility Matrix: 208.0025.001
Features Matrix: 208.0030.001

EXECUTEC

12200 Park Central Dr
Suite 470
Dallas TX 75251

(214) 239-8080

► SeriesOnePlus

An integrated system for financial modeling, WP, and electronic filing

Price \$495 purchase

Environment Computers: microcomputers running under MS-DOS, PC DOS, CP/M-86, Unix, and Unix-like operating systems. Main storage: not specified. Source language: C.

Capabilities Password security for disk, networked, and multiuser systems. Integrated application programs share data files. Full-screen text editing features proportional spacing, headings and footings, and merged-mail form letters. Record filing uses key search and Boolean selection criteria. Spreadsheet modeling has advanced financial features and if-then conditional operators.

Description SeriesOnePlus consists of three interrelated programs—Execu/MODEL, Execu/WRITER, and Execu/FILER—tied to a central operating shell called Execu/BUS. Optional programs for use with the SeriesOnePlus include the Execu/REPORTER report writer, Execu/LINK communications program, and Execu/PLOT business graphics generator. The unified structure of SeriesOnePlus provides conformity in all program menus and data file formats.

Executec offers a variety of bank management and financial analysis packages for use with SeriesOnePlus.

Compatibility Matrix: 208.0025.001
Features Matrix: 208.0030.001

GRAPHICON SOFTWARE

399 Sherman Ave
Suite 10
Palo Alto CA 94306

(415) 329-1791

► Inview

A mouse-based integrated operating environment

Price \$295 purchase

Environment Computers: IBM Personal Computer. Main storage: 256K bytes. Source language: not specified.

Capabilities Supports concurrent operation of application programs. File transfer between programs that use comma-delimited or text-formatted files. Snapshot feature allows text to be transferred between windows. Optional mouse.

Description Inview integrates third-party software into a multiwindow operating environment. Most application programs using relocatable object code, including Ashton-Tate dBASE II, MicroPro WordStar, and Lotus 1-2-3, can be run under Inview with no modification; however, nonrelocatable programs, such as VisiCorp VisiCalc, cannot be run.

Compatibility Matrix: 208.0025.001
Features Matrix: 208.0030.001

LOTUS DEVELOPMENT CORP

161 First St
Cambridge MA 02142

(617) 492-7171

► Lotus 1-2-3

An integrated spreadsheet, graphics, and information management program

Price \$495 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, and Personal Computer 3270; Texas Instruments Professional Computer; Digital Equipment Rainbow 100; and other computers running under MS-DOS. Main storage: 192K bytes. Source language: not specified.

Capabilities Spreadsheet modeling and analysis. Built-in mathematical functions, including percentage, internal rates of return, net present value, future value, and standard deviation. Boolean operations. Global and individual column formatting with right and left margin justification, dollar signs, and commas. Screen splits into two windows. Interactive graphics with five chart types. Simple data base operations.

Description Lotus 1-2-3 is a fast, integrated program combining sophisticated spreadsheet, easy-to-use graphics, and limited data base management features. The spreadsheet is a matrix 256 columns wide and 2,048 rows deep, although the actual size of a model is limited by the amount of RAM available in the computer.

The editing features of Lotus 1-2-3 facilitate the construction of spreadsheet models. Users can combine program commands with mathematical functions to create complex, keyboard-executed macrofiles for use in model construction.

The PrintGraph program uses information from a specified row or column of the spreadsheet to generate bar, stacked bar, line, pie, and X-Y numerically scaled charts. These graphs are displayed in color and can be stored on disk for subsequent printing, plotting, or use in a slide presentation. When running on an IBM Personal Computer, Lotus 1-2-3 requires the IBM RGB monitor to display graphs and charts.

Users can configure the Lotus 1-2-3 spreadsheet to perform simple data base functions. Each of the 256 columns can be defined as a field containing up to 240 characters. Records can be sorted and selected, and information can be taken from the data base and consolidated into other Lotus 1-2-3 models.

All Lotus 1-2-3 models and graphs are stored as standard disk files. Other programs, such as Ashton-Tate dBASE II or MicroPro International WordStar, can thus exchange information with Lotus 1-2-3.

Compatibility Matrix: 208.0025.001
Features Matrix: 208.0030.001



LOTUS DEVELOPMENT CORP

161 First St
Cambridge MA 02142

(617) 492-7171

► Symphony

An integrated productivity program

Price \$695 purchase (\$200 with trade-in of Lotus 1-2-3)

Environment Computers: IBM Personal Computer and Personal Computer XT. Main storage: 320K bytes. Source language: C.

Capabilities Allows a virtually unlimited number of on-screen windows, each associated with a specific task. WP program with display and format controls patterned after dedicated WP systems. Forms-oriented DBMS with capacity for 8,000 records. Supports asynchronous communications and XMODEM file-transfer protocols. Spreadsheet modeling on a matrix of 256 columns by 8,192 rows. Graphics with a variety of chart types. Automatic transfer of data between windows and programs.

Description Symphony is an integrated multifunction program that offers improved versions of the spreadsheet and graphics functions of Lotus 1-2-3 and adds WP, data base management, and communications capabilities. All five of these functions, working on data kept in a spreadsheetlike matrix within the computer's RAM, run under a window management system that enables users to display several tasks simultaneously.

The WP function includes word wraparound, margin justification, global search and replace, embedded format commands, and boldfaced text. Information from spreadsheets and data base files can be easily incorporated into WP documents.

The Symphony DBMS automatically generates input screens, data base structures, and printed reports based on user specifications. All data must reside in RAM while the DBMS is in use. The communications manager handles asynchronous communications with remote mainframes and XMODEM file transfers to remote microcomputers. Communications sessions can be suspended without breaking connection to the remote system, and all files received are immediately translated into the formats required by Symphony applications.

The spreadsheet, an upgraded version of that offered by Lotus 1-2-3, supports larger models and offers password access and improved text handling. Symphony can also display graphs and text simultaneously.

Through the Symphony Command Language (SCL), Symphony combines commonly used keystrokes into macrofiles. Many Lotus 1-2-3 templates and macrofiles can be translated into the SCL.

Compatibility Matrix: 208.0025.001
Features Matrix: 208.0030.001

MICROPRO INTERNATIONAL

33 San Pablo Ave
San Rafael CA 94903

(408) 499-1200

► StarBurst

Creates a sequence of delegated tasks involving several application programs

Price Purchase: \$195 (separately); \$595 (bundled with MicroPro InfoStar)

Environment Computers: microcomputers running under CP/M, CP/M-86, or MS-DOS. Main storage: not specified. Source language: not specified.

Capabilities Provides a front-end environment for application programs from MicroPro and other software vendors. Includes 24 English-like commands (e.g., RUN, CHECK, PROMPT, DISPLAY) to help the user build task linkages. Stores linkage steps on disk for use by untrained personnel.

Description StarBurst is designed to let a manager take a series of sequenced tasks and create an execution file that guides untrained users through the process, calls the necessary programs, prompts for commands and data, and manages the opening and closing of data files. StarBurst is not a multitasking program. Any program using CBASIC files can be interfaced to StarBurst.

Compatibility Matrix: 208.0025.001
Features Matrix: 208.0030.001

MICROSOFT

10700 Northup Way
Bellevue WA 98004

(206) 828-8080

► Microsoft Windows

A windowing operating environment

Price Purchase: \$100-\$250

Environment Computers: microcomputers running under MS-DOS. Main storage: 192K bytes. Source language: not specified.

Capabilities Displays several programs or documents simultaneously in user-defined windows. Single tasking. Allows users to move and resize windows using a mouse. Uses binary, ASCII, or Microsoft SYmbolic LinK (SYLK) exchange files to transfer data between windows or programs. Uses the graphics device interface (GDI) as a universal program interface for applications development.

Description Microsoft Windows, an extension of MS-DOS, integrates off-the-shelf and specially developed third-party software into a windowing environment. Microsoft Windows consists of two basic components: the window manager and the GDI.

The window manager allows users to display any number of programs, graphs, or documents in independent windows. A mouse-driven menu included with the window manager is used to invoke operating system functions. The tiled window technique used by the window manager places windows of any size side by side. When two windows are overlayed, the lower window automatically closes any associated programs or files.

GDI is a device-independent, bit-mapped graphics interface for applications program development. GDI allows any program written under Microsoft Windows to be transported, without modification, to any microcomputer supporting Microsoft Windows.

Most third-party software runs under Microsoft Windows, but only software specifically designed to use GDI system calls can be tied to the user-defined windows.

Compatibility Matrix: 208.0025.001

Features Matrix: 208.0030.001

MOSAIC SOFTWARE

1972 Massachusetts Ave
Cambridge MA 02140

(617) 491-2434

► Integrated-6

An integrated applications package

Price \$495 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT. Main storage: 256K bytes. Source language: C.

Capabilities Data base management. Features 100,000 records per file, 40 fields per record, and 60

characters per field. Presentation-quality graphics consisting of three-dimensional pie charts, bar charts, pie and bar chart combinations, and horizontal bar charts. Spreadsheet modeling. Full-screen, document-oriented word processing. Permits file and document transfer between linked microcomputers. Supports ASCII, Data Interchange Format (DIF), and Microsoft SYmbolic LinK (SYLK) file exchanges. Emulates Digital Equipment VT52 and VT100 and IBM 3101 terminals.

Description Integrated-6 combines six application programs into one package. Files and data can be shared easily between programs through the program menus. The six modules include:

- **Data base manager**—A menu-driven relational DBMS. Information from the data base can easily be transferred or consolidated for use with the Integrated-6 spreadsheet program.
- **Presentation graphics**—Accepts input from spreadsheet models and menu-driven input forms. This module supports various pen plotters and color dot matrix printers.
- **Spreadsheet**—Links to the data base, graphics, or WP modules for the preparation of complex reports. The split-screen function allows display of spreadsheets and graphs.
- **Word processor**—Allows text, graphics, and spreadsheet data to be combined into a single document.
- **Communication**—Permits any document or file created under Integrated-6 to be sent to a remote microcomputer.
- **Terminal emulator**—Supports full telecommunications, including data file transfer, with remote mainframes.

Mosaic Software is instituting a vertical market software program that will help other vendors tie their applications software into Integrated-6.

Compatibility Matrix: 208.0025.001

Features Matrix: 208.0030.001



NORTH AMERICAN BUSINESS SYSTEMS

642 Office Pkwy
St Louis MO 63141

(314) 432-6106

► Memory/Shift

A partitioned operating environment

Price \$99 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, and compatible systems. Main storage: 128K bytes. Source language: not specified.

Capabilities Supports concurrent residency of between two and nine PC DOS-based application programs. Cursor control keys permit information displayed on screen to be transferred to other processes. Disk-checking feature ensures that data files are written to the proper diskette.

Description Memory/Shift divides the internal memory of the IBM Personal Computer into partitions of at least 32K bytes each. Each partition supports an application program. Though only the program associated with the screen display is executed, users can switch between partitions and transfer data to other programs at will. Memory/Shift allows users to integrate resident utilities, such as disk drivers, printer spoolers, and RAM disks, into the Memory/Shift environment.

Compatibility Matrix: 208.0025.001
Features Matrix: 208.0030.001

ONYX SYSTEMS

25 E Trimble Rd
San Jose CA 95131

(408) 946-6330

► The ONYX Office

An integrated office productivity system

Price \$4,995 purchase

Environment Computers: Onyx computers running under Unix System III. Main storage: not specified. Source language: C.

Capabilities Multitasking, multiuser windowing environment. User-definable front-end menu system. Includes sophisticated WP capabilities, relational data base management, virtual-memory spreadsheet modeling, and electronic mail.

Description The ONYX Office is a completely integrated package consisting of the ONtext WP program, the ONbase DBMS, and the ONcalc spreadsheet program. ONbase includes the SEQUEL 2 DBMS query language. ONtext emulates the functions of sophisticated, dedicated WP systems. ONcalc provides a variety of sophisticated financial and statistical functions, such as internal rate of return, present value, future value, least squares, and standard deviation. Also included in the ONYX Office is the run-time Connexion menu system, which handles the user interface and the interprogram data exchange. The optional ONmail electronic mail

system allows users to easily exchange documents, memos, and data files.

Compatibility Matrix: 208.0025.001
Features Matrix: 208.0030.001

PEACHTREE SOFTWARE

3445 Peachtree Rd NE
Atlanta GA 30326

(404) 239-3000

► Decision Manager

An integrated, multifunctional productivity program

Price \$625 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT and compatible computers. Main storage: 256K bytes. Source language: not specified.

Capabilities Window management, with up to 20 on-screen windows running any combination of six application functions: WP, spreadsheet modeling, data base management, business graphics, telecommunications with remote microcomputers, and communications with remote mainframes. Compatible with files created by Peachtree PeachText 5000. Allows users to suspend any number of windows, exit the program, and later resume operation at the point of exit.

Description Decision Manager provides a consistent menu and command structure for using all of the WP, spreadsheet, data base, graphics, or communications functions. The window management system allows users to easily transfer data between functions and supports both mouse- and keyboard-based menu selections. WP facilities supported include full-screen editing, search and replace, margin justification, and boldfaced text. More sophisticated format control can be obtained through the advanced capabilities of PeachText 5000.

The spreadsheet supports a worksheet matrix of 63 columns by 254 rows, with individual column widths ranging between 0 and 116 characters. The forms-driven data base function allows data files of up to 32,000 records of 60 fields each, with 80 characters per field. Records or summary information can be transferred to spreadsheet and WP windows. Decision Manager offers business graphics with 10 specialized chart types, including bar, horizontal bar, histogram, and three-dimensional pie charts, and scatter charts with linear regression. The communications manager supports IBM 3270 emulation and high-performance file transfer with remote microcomputers in originate, answer, full-duplex, or half-duplex modes.

Compatibility Matrix: 208.0025.001
Features Matrix: 208.0030.001

PEACHTREE SOFTWARE

3445 Peachtree Rd NE
Atlanta GA 30326

(404) 239-3000

► PeachText 5000

A personal productivity package with WP, list management, and spreadsheet programs

Price \$425 purchase

Environment Computers: microcomputers running under MS-DOS. Main storage: 128K bytes. Source language: BASIC and Assembler.

Capabilities Central menu system provides access to WP, spelling checking, list management, and spreadsheet management programs. Standard file format allows data to be transferred between programs.

Description PeachText 5000 provides access to the Peachtree PeachText WP program, PeachCalc electronic spreadsheet, Random House Electronic Thesaurus, Spelling Proofreader, and List Manager through a single menu system. Each program still runs independently, and only one program can be run at a time; however, the structure of PeachText 5000 enables users to easily transfer information between programs.

Compatibility Matrix: 208.0025.001
Features Matrix: 208.0030.001

QUARTERDECK OFFICE SYSTEMS

1918 Main St
Suite 240
Santa Monica CA 90405

(213) 392-9851

► DesQ

A mouse-based integrated operating environment

Price \$399 purchase

Environment Computers: IBM Personal Computer (with 5M bytes of disk storage) and Personal Computer XT, COMPAQ Plus. Main storage: 256K bytes. Source language: SYMPL.

Capabilities Supports concurrent operation of application programs in a windowed environment. Automatic or user-controlled data transfer between programs. Optional mouse. Number of concurrent processes and windows limited only by RAM space. Supports monochrome and color monitors.

Description DesQ integrates unmodified, off-the-shelf, third-party software into a multiwindow operating environment. DesQ displays a window on the screen for each process or program being executed. The user can overlay windows, change their size, or move between windows with ease.

DesQ initializes programs through the use of macro strings. Users can create special functions that combine different programs and automatically transfer all necessary data. Users invoke a special function by pressing the key associated with the function.

Compatibility Matrix: 208.0025.001
Features Matrix: 208.0030.001

SOFTTREND INC

2 Manor Pkwy
Salem NH 03079

(603) 898-1777

► Aura

An integrated DBMS, spreadsheet, WP, and graphics program

Price \$595 purchase (\$150 additional for telecommunications module)

Environment Computers: IBM Personal Computer, Personal Computer XT, and many microcomputers running under MS-DOS. Main storage: 256K bytes. Source language: C.

Capabilities DBMS with interactive sort and query. File restructuring. Spreadsheet modeling integrated with all Aura functions. Allows linking of spreadsheet models with interactive manipulation of linked models. WP with full-screen editing, automatic pagination, and global search and replace. Graphics with pie, stacked- or clustered-bar, and organizational charts. Optional telecommunications and terminal emulation with support of SNA/SDLC, bisynchronous, and asynchronous communications.

Description Aura consists of a core DBMS integrated with spreadsheet, WP and graphics components. Information from any field in the data base can be used in the creation of spreadsheet models, color graphs, or integrated merged-mail form letters. Graphs and spreadsheet models can be combined with text under the word processor or, through the optional communications module, they can be transferred to another computer.

The Aura data base is completely menu driven and includes a full-screen editor for creating input screens and report formats. Users can specify input screens with full data validation; automatic mathematical manipulation of entered data; and blinking, underlined, or low-intensity characters.

Compatibility Matrix: 208.0025.001
Features Matrix: 208.0030.001



SOFTWARE PRODUCTS INTERNATIONAL

10240 Sorrento Valley Rd
San Diego CA 92121

(619) 450-1526

► **Open Access**

An integrated program combining six applications

Price \$595 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT. Main storage: not specified. Source language: not specified.

Capabilities Generates spreadsheet models of up to 28,000 cells. Supports goal seeking. Relational data base with English-like retrieval commands. Flexible report writer. Full-color business graphics provides pie, line, bar, and three-dimensional bar charts. WP function accesses spreadsheet reports, graphics, and merged-mail lists. Telecommunications for transferring microcomputer data and text files or accessing remote data bases. Appointment scheduling.

Description Open Access is an integrated program with spreadsheet, WP, graphics, telecommunications, and appointment scheduling functions organized around a relational data base that facilitates data sharing between applications. The query function of the data base scans up to five data files and combines selected data for use with spreadsheet, graphics, or WP applications. The spreadsheet program supports up to six split-window screens and allows users to work on four spreadsheet models simultaneously. The Open Access goal-seeking function combines how-can with what-if modeling.

Compatibility Matrix: 208.0025.001
Features Matrix: 208.0030.001

SORCIM CORP

2310 Lundy Ave
San Jose CA 95131

(408) 942-1727

► **SuperCalc³**

A spreadsheet modeling program integrated with graphics and data management capabilities

Price \$395 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT and compatible computers. Main storage: 96K bytes. Source language: not specified.

Capabilities Spreadsheet program with two-key sorting of alphanumeric data stored in rows and columns; text entry facilities; and extensive financial functions, including internal rate of return (IRR), net present value (NPV) of even and uneven cash flows, amortization calculations, and future values of annuities. Business graphics with seven different types of charts. Up to 254 variables can be included in one chart.

Description SuperCalc³ includes an improved version of the SuperCalc and SuperCalc² spreadsheets and

a business graphics program. Any models or data created using SuperCalc or SuperCalc² can be transferred to SuperCalc³. Spreadsheets and charts can also be transferred to SuperWriter for use in WP documents. SuperCalc³ uses the information either entered manually or transferred from the spreadsheet to create pie charts with up to eight slices, line graphs, area graphs, bar charts, stacked bar charts, high-low-close stock charts, and X-Y graphs. A variety of printers and pen plotters can be used with SuperCalc³.

Compatibility Matrix: 208.0025.002
Features Matrix: 208.0030.002

STRUCTURED SYSTEMS GROUP (SSG)

5204 Claremont Ave
Oakland CA 94618

(415) 547-1567

► **WindowMaster**

A keyboard-driven windowing environment

Price \$295 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT; microcomputers running under MS-DOS or CP/M-86. Main storage: not specified. Source language: not specified.

Capabilities Allows multiple application programs to be displayed simultaneously. Simplifies interwindow communications by handling all program data transfer. Provides horizontal and vertical scrolling within each window. Permits MS-DOS and CP/M-86 application programs to run concurrently and share data.

Description WindowMaster enables users to run both SSG application programs and other popular programs, such as MicroPro WordStar or Lotus 1-2-3, under a windowed multitasking environment. Users can also define a script (a list of program functions) to perform repetitive tasks. Thus, the SSG Accounts Receivable program, running under WindowMaster, can automatically share data with the general ledger program without requiring the user to swap program or data diskettes.

Compatibility Matrix: 208.0025.002
Features Matrix: 208.0030.002

TRILLIAN COMPUTER CORP

129 Central Ave
Los Gatos CA 95031

(408) 358-2761

► VisuALL

A mouse-driven operating environment

Price \$100 purchase; \$50 additional for each add-on shell

Environment Computers: IBM Personal Computer and Personal Computer XT and compatible computers. Main storage: not specified. Source language: not specified.

Capabilities Provides mouse-driven front-end menu system that allows users to perform MS-DOS or application program functions from central menu. Provides HELP menus.

Description VisuALL provides a consistent, easy-to-use user interface for MS-DOS and various application programs. A combination of function keys or mouse selections allows users to invoke MS-DOS file and disk maintenance utilities. Trillian Computer offers add-on shells that allow popular application programs, such as MicroPro WordStar, to be brought into the VisuALL environment.

Compatibility Matrix: 208.0025.002
Features Matrix: 208.0030.002

VISICORP

2895 Zanker Rd
San Jose CA 95134

(408) 946-9000

► Vision

A mouse-based integrated operating environment

Price \$795 purchase (including mouse)

Environment Computers: IBM Personal Computer (with 5M bytes of disk storage) and Personal Computer XT. Main storage: 256K bytes. Source language: C.

Capabilities Window- and mouse-based operating environment. Unified command structure.

Description Vision is an integrated operating environment that simulates a desktop work space with overlapping windows. It supports the following special application programs:

- Vision Calc—Develops spreadsheet models of unlimited size
- Vision Word—WP integrated with spreadsheet reports and mailing lists
- Vision Graph—Produces high-resolution line, bar, pie, X-Y, and high-low-close charts

Application programs to be offered by VisiCorp include Vision Query (a relational data base manager) and a variety of communications software.

Vision allows users to access several application programs at once; the current status of each process is displayed on its own window. Though Vision is not

multitasking, it allows information to be easily exchanged between applications.

Each application program is specially designed to work within the Vision environment. Third-party application software will not run under the Vision operating environment unless it has been specially modified by the vendor using the development toolkit offered by VisiCorp.

Vision presents the user with a mouse-selectable menu of nine English-language commands: OPEN, CLOSE, FULL, and FRAME manipulate the windows; STOP aborts a command; TRANSFER moves data between windows and application programs; SAVE moves data to disk storage; OPTIONS presents a menu of options; and HELP provides a tutorial available to users at any point in a program.

Compatibility Matrix: 208.0025.001

Features Matrix: 208.0030.001

XYTZ COMPUTER DIMENSIONS

2 Penn Plaza
Suite 1500
New York NY 10121

(212) 244-3100

► NICE

An integrated operating environment and application development system

Price \$450 purchase

Environment Computers: Tandy TRS-80 Models I and III. Main storage: not specified. Source language: not specified.

Capabilities Integrates independent applications software. Includes an interactive control and programming language (ICPL) for development of user-customized applications software. ICPL controls the screen management, report development, data base management, DOS interface, and menu management facilities. All ICPL commands can be used interactively or invoked from stored command files or BASIC programs.

Description NICE (New Interactive Computing Environment) allows the integration of existing and specially developed software under a menu-driven shell interface to the standard TRS-80 disk operating system. NICE includes such development tools as a data base manager, screen and menu manager, and report generator for use in developing interactive data base applications.

Compatibility Matrix: 208.0025.001

Features Matrix: 208.0030.001



INVESTMENT SERVICES

Compatibility Matrix

214.0025.001

Vendor/Package	Compatible Operating Systems														Other
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	
Applied Systems THE AGENCY MANAGER							•			•					
BMA Business Computers Asset/Liability—Forecasting Guide			•												
CADO Systems BANCADO Credit Union System of America (CUSA)															CADO microcomputers CADO microcomputers
ColorCorp ColorBIZ Loan							•								
Contour THE LOAN HANDLER	•						•								
The Cottonwood Co Foresight II							•			•					
Darling & Associates Balance Sheet Information System (BASIS)							•			•					
Dow Jones & Co Market Analyzer Market Manager Market Microscope	• • •						• • •								
Eagle Software Publishing Money Decisions Volumes 1 and 2	•						•			•					
Ensign Software Commodity Futures Historical Price Charts Commodity Futures Real-Time Tic Charts							• •			• •					
European American Bank Euramicro							•			•					
Financial Systems BankDisk Asset and Liability Management	•														
Financial Technology Interactive Financial Planning System							•						•		
Finser ASSET/LIABILITY MANAGEMENT										•					AMOS/L
H&H Scientific Stock Option Analysis Program (SOAP)	•						•								

Vendor/Package	Compatible Operating Systems															Other	
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	Unix		Xenix
Hale Systems Financial Institutions Planning System Pear Portfolio Management System Pear Technical Analysis	•						•			•							
Hewlett-Packard The Portfolio Management Pac																	Hewlett-Packard HP 86
Infoware RB3 Relationship Banking System							•										
International Data Processing IDP/Brokerage Administration System I	•						•										
Isys MICRO/SCAN	•				•		•										
Littlewood, Shain & Co Financial Management System (FMS)	•									•							
Metamorphics Metamorphics Insurance System (MIS)							•			•							
Micro Information Systems TAXEXEC				•						•							
Micro Investment Systems Stock Portfolio Reporter							•			•							
MTech Micro Services MTech Asset/Liability Management System				•		•	•			•							
N-Squared Computing N² Market Analyzer N² Market Illustrator N² Stock Analyzer	• •						• • •										
Plansmith THE PLANSMITH				•			•			•							
Reveal Software REVEAL	•						•										
Gary Robben & Associates A/L Monitor							•										
Savant THE FUNDAMENTAL INVESTOR OPTIONCALC THE TECHNICAL INVESTOR	•						• • •			•							
Sendero Micro-FRS							•			•							
Single Source Solution BUYSEL PORTMAP				• •			•			•							CDOS
Software Resources PRO/VEST							•										

Vendor/Package	Compatible Operating Systems														Other
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	
Spot Systems Foreign Exchange Trading System Money Market Trading System							•			•					
Technical Analysis Group CompuTrac/CompuTrac-PC Intra Day Analyst/Intra Day Analyst-PC	•						•								
Technical Data Yield Calculator							•								
Union Planters National Bank PROPHET							•			•					
Value Line Value/Screen													•		
Vining-Sparks Securities Vining Asset/Liability Management System Vining Bond Swap System	•						•							•	

INVESTMENT SERVICES

Features Matrix

214.0030.001

Vendor/Package	System Capabilities												Application	
	Accounts Receivable	Administrative Support	Asset/Liability Management	Credit Analysis	Customer Information	Data Communications	Financial Planning	Graphics	Income Statements	Portfolio Analysis	Return on Investment	Tax Planning		
Applied Systems THE AGENCY MANAGER	•				•								Insurance	
BMA Business Computers Asset/Liability—Forecasting Guide			•				•						Banking	
CADO Systems BANCADO Credit Union System of America (CUSA)		•	•		•								Banking Banking	
ColorCorp ColorBIZ Loan	•	•			•								Banking	
Contour THE LOAN HANDLER				•	•								Banking	
The Cottonwood Co Foresight II							•	•	•				Banking	
Darling & Associates Balance Sheet Information System (BASIS)			•				•	•	•				Banking	
Dow Jones & Co Market Analyzer Market Manager Market Microscope						•	•	•		•	•	•	Stock technical analysis Stock portfolio management Stock market analysis	
Eagle Software Publishing Money Decisions Volumes 1 and 2				•			•				•		Financial	
Ensign Software Commodity Futures Historical Price Charts Commodity Futures Real-Time Tic Charts								•		•			Commodity analysis Commodity analysis	
European American Bank Euramicro				•		•	•						Banking	
Financial Systems BankDisk Asset and Liability Management		•	•				•	•	•				Banking	
Financial Technology Interactive Financial Planning System			•	•			•	•		•			Banking	
Finser ASSET/LIABILITY MANAGEMENT				•			•						Banking	
H&H Scientific Stock Option Analysis Program (SOAP)						•		•		•	•		Stock option analysis	
Hale Systems Financial Institutions Planning System Pear Portfolio Management System Pear Technical Analysis				•			•	•	•		•	•	•	Banking Stock portfolio management Stock analysis

Vendor/Package	System Capabilities												Application
	Accounts Receivable	Administrative Support	Asset/Liability Management	Credit Analysis	Customer Informations	Data Communications	Financial Planning	Graphics	Income Statements	Portfolio Analysis	Return on Investment	Tax Planning	
Hewlett-Packard The Portfolio Management Pac						•		•		•	•		Stock portfolio management
Infoware RB3 Relationship Banking System					•		•						Banking
International Data Processing IDP/Brokerage Administration System I	•				•		•		•				Insurance
Isys MICRO/SCAN							•			•			Stock technical analysis
Littlewood, Shain & Co Financial Management System (FMS)			•				•		•				Banking
Metamorphics Metamorphics Insurance System (MIS)	•			•	•				•				Insurance
Micro Information Systems TAXEXEC												•	Tax preparation
Micro Investment Systems Stock Portfolio Reporter						•				•	•		Stock portfolio management
MTech Micro Services MTech Asset/Liability Management System		•	•				•		•				Banking
N-Squared Computing N ² Market Analyzer N ² Market Illustrator N ² Stock Analyzer						• • •	• • •			• • •			Stock market analysis Stock technical analysis Stock technical analysis
Plansmith THE PLANSMITH			•				•		•				Banking
Reveal Software REVEAL					•					•	•		Stock broker portfolio management
Gary Robben & Associates A/L Monitor			•				•					•	Banking
Savant THE FUNDAMENTAL INVESTOR OPTIONCALC THE TECHNICAL INVESTOR						• • •	• • •			• • •			Stock analysis Stock option analysis Stock technical analysis
Sendero Micro-FRS			•				•		•			•	Banking
Single Source Solution BUYSEL PORTMAP							•			• • •	• • •		Stock analysis Stock portfolio management
Software Resources PRO/VEST	•				•					•	•		Stock broker portfolio management

Vendor/Package	System Capabilities												Application
	Accounts Receivable	Administrative Support	Asset/Liability Management	Credit Analysis	Customer Information	Data Communications	Financial Planning	Graphics	Income Statements	Portfolio Analysis	Return on Investment	Tax Planning	
Spot Systems Foreign Exchange Trading System Money Market Trading System	•	•	•	•	•				•	•			Banking Banking
Technical Analysis Group CompuTrac/CompuTrac-PC Intra Day Analyst/Intra Day Analyst-PC						•		•	•	•			Stock technical analysis Commodity analysis
Technical Data Yield Calculator											•		Banking
Union Planters National Bank PROPHET			•				•		•				Banking
Value Line Value/Screen										•			Stock selection/screening
Vining-Sparks Securities Vining Asset/Liability Management System Vining Bond Swap System			•				•				•	•	Banking Banking

INVESTMENT SERVICES

Product Summaries

APPLIED SYSTEMS

PO Box 400
Monee IL 60449

(312) 534-5575

► THE AGENCY MANAGER

A business management system for insurance companies

Price \$3,750 purchase

Environment Computers: Those running under PC DOS or MS-DOS. Main storage: 256K bytes. Source language: run-time dBaseII.

Capabilities Menu driven. Password security. Customer data entry screens. Reports. Sort options.

Description THE AGENCY MANAGER handles the daily work flow of insurance agencies; maintains customer files; performs accounting on a daily, weekly, or monthly basis; and assists marketing by providing user-defined client lists of common conditions. For example, the system could list all customers who have automobile insurance but do not have a homeowner policy. The system generates reports on production, balance sheet, income and expense, general ledger, status of accounts, aged accounts receivable, and accounts current.

Compatibility Matrix: 214.0025.001
Features Matrix: 214.0030.001

BMA BUSINESS COMPUTERS

301 Elm St
Leland IL 60531

(815) 495-2863

► Asset/Liability—Forecasting Guide

A SuperCalc spreadsheet template for financial forecasting

Price \$495 purchase

Environment Computers: microcomputers running under CP/M. Main storage: not specified. Source language: Sorcim SuperCalc.

Capabilities Gap analysis. Asset maturity schedules. Interest rate sensitivity analysis. Cost of funds and loan pricing analysis.

Description Asset/Liability—Forecasting Guide, a template model for use with the Sorcim SuperCalc electronic spreadsheet, is based on the *Community Bank Financial Performance Guide* published by the American Banking Association. The templates cover five-year financial forecasting, one-year profit planning, and asset/liability gap management with floating interest rates and maturing funds.

Compatibility Matrix: 214.0025.001
Features Matrix: 214.0030.001

CADO SYSTEMS

2055 W 190th St
PO Box 3759
Torrance CA 90510

(213) 323-8170

► BANCADO

An information system for community banks

Price Vendor declined to provide

Environment Computers: all CADO computers. Main storage: 48K–512K bytes. Source language: CADOL.

Capabilities General ledger. Asset and liability management. Bond accounting. Construction loan management.

Description BANCADO's Central Information File (CIF) includes deposit accounts, commercial and installment loans, and certificates of deposit. The system provides 64 ports. If used with CADO's TIGER hardware, BANCADO can grow with a bank's needs.

Compatibility Matrix: 214.0025.001
Features Matrix: 214.0030.001

CADO SYSTEMS

2771 Toledo St
Torrance CA 90503

(213) 323-8170

► Credit Union System of America (CUSA)

A management accounting system for credit unions

Price Vendor declined to provide

Environment Computers: all CADO computers. Main storage: 48K–512K bytes. Source language: CADOL.

Capabilities Payroll deduction processing. Records daily teller transactions. Loan and share draft processing. Electronic fund transfers. Insurance calculation reporting. General accounting. Online updating. Over-the-counter checks and receipts.

Description Credit Union System of America (CUSA) monitors daily transactions and flags conditions requiring immediate attention. Its general accounting and payroll processing capabilities also assist in the administration of the credit union and its personnel.

Compatibility Matrix: 214.0025.001
Features Matrix: 214.0030.001

COLORCORP

208 N Berkshire
Bloomfield Hills MI 48013

(313) 335-2255
(800) 521-0793

► ColorBIZ Loan

A loan management package

Price \$50 purchase

Environment Computers: IBM Personal Computer. Main storage: 128K bytes. Source language: BASIC.

Capabilities Color coded for use with color monitor. Calculates any one of four loan values. Provides monthly or annual amortization tables. Removes loans from loan file. Provides loan directory. Prints or displays loans showing loan number, creditor, purpose, first payment date, loan amount, monthly payment, interest rate, and file of loan. Prints or displays loan report showing loan number, first and last payment date, beginning and ending balances for selected dates, and interest and principal paid during selected period.

Description ColorBIZ Loan calculates loans based on specified loan values, maintains a record of loans, creates amortization tables, reports the status of loans between selected dates, and lists outstanding loans. The system calculates the total interest and principal paid for any period, analyzes various financing alternatives, reviews current outstanding obligations for refinancing, determines balloon payment requirements, and prepares budgets.

Compatibility Matrix: 214.0025.001
Features Matrix: 214.0030.001

CONTOUR

4960 Hamilton Ave
San Jose CA 95130

(408) 370-1700

► THE LOAN HANDLER

A mortgage loan package for mortgage bankers

Price \$1,150 purchase for Apple computers, 1,500 for computers running under PC DOS

Environment Computers: Apple II+ and IIe and those running under PC DOS. Main storage: 64K bytes. Source language: not specified.

Capabilities Handles mortgage loans in low- to medium-price range. Interactive. Guides users through forms. Updates client folders.

Description THE LOAN HANDLER analyses, calculates, and prints loan forms for FNMA, FHLMC, FHA, VA, and second mortgages. The system can operate as a dumb terminal to accept information from other service companies. Also, by using such portable computers as the Radio Shack Model 100, loan information can be transferred to home offices by agents in the field. In addition, the system interfaces with WP and spreadsheet packages.

Compatibility Matrix: 214.0025.001
Features Matrix: 214.0030.001

THE COTTONWOOD CO

PO Box 45
Walla Walla WA 99362

(509) 522-1140

► Foresight II

A financial planning system for community banks

Price \$795 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT; microcomputers running under MS-DOS. Main storage: not specified. Source language: Lotus 1-2-3.

Capabilities Generates balance sheets and income statements. Produces strategic and annual profit plans. Performs variance analyses, comparing budgeted and actual performance. Monitors key ratios.

Description Foresight II, a template package for use with the Lotus 1-2-3 electronic spreadsheet, consists of three models: Strategic Planning, Annual Profit Planning, and Variance Analysis. Strategic Planning analyzes historic performance and projects financial performance for up to five years. Annual Profit Planning allows users to develop annual profit plans with monthly projections of balance sheets and income statements. Several alternative plans can be developed and compared. Variance Analysis provides a detailed analysis of the variance between actual and budgeted performance. This model generates reports on key ratios and interest rate change on a monthly, year-to-date, and relative basis.

Compatibility Matrix: 214.0025.001
Features Matrix: 214.0030.001



DARLING & ASSOCIATES INC

451 Andover St
North Andover MA 01845

(617) 794-0212

► **Balance Sheet Information System (BASIS)**

An asset and liability management and planning system

Price \$8,000 purchase

Environment Computers: Those running under PC DOS and MS-DOS. Main storage: 128K bytes. Source language: Compiled BASIC.

Capabilities Performs static and dynamic gap analysis. Produces asset maturity schedules. Generates balance sheets and income statements. Determines rate sensitivity. Key ratio reporting. Interfaces to VisiCorp VisiPlot for production of charts and graphs.

Description BASIS is a comprehensive modeling, forecasting, and asset/liability management tool. The program features a funds allocation matrix that enables the user to forecast net-interest margins by asset and to take corrective action on a selective basis.

Compatibility Matrix: 214.0025.001
Features Matrix: 214.0030.001

DOW JONES & CO

PO Box 300
Princeton NJ 08540

(800) 257-5114
(609) 452-1511 (NJ or Canada)

► **Market Manager**

A portfolio management package

Price \$299 purchase

Environment Computers: Apple II, IIe, II+, III; IBM Personal Computer. Main storage: 48K bytes (Apple), 128K bytes (IBM). Source language: not specified.

Capabilities Data entry for buys, sells, and cash transactions. Year-to-date transaction audit trail. Year-to-date realized gains/losses tax record. Automatic cash entry system for buys and sells. Access to all news/retrieval services.

Description The Market Manager maintains one or more security portfolios; accesses up-to-date prices and financial information; and tracks stocks, bonds, options, mutual funds, and treasury issues. In addition to automatic valuation of positions, the system prints reports for individual accounts and overall securities holdings.

Compatibility Matrix: 214.0025.001
Features Matrix: 214.0030.001

DOW JONES & CO

PO Box 300
Princeton NJ 08540

(800) 257-5114
(609) 452-1511 (NJ or Canada)

► **Market Analyzer**

A technical analysis package

Price \$349 purchase

Environment Computers: Apple II, II+, IIe; IBM Personal Computer. Main storage: 48K bytes (Apple), 64K bytes (IBM). Source language: not specified.

Capabilities Automatically enters one year of daily historic data on stocks. Updates daily data on stocks, bonds, mutual funds, and options. Allows input of special indicators. Stores data on 104 stocks for 128 days or 52 stocks for 256 days on one diskette. Accesses all Dow Jones News/Retrieval services.

Description The Market Analyzer collects historical and daily market quotes from the Dow Jones News/Retrieval Service and stores the information for subsequent viewing. The system constructs relative strength and analysis charts or individual price and volume charts with moving averages, straight-line constructions, price/volume indicators, and oscillator charts.

Compatibility Matrix: 214.0025.001
Features Matrix: 214.0030.001

DOW JONES & CO

PO Box 300
Princeton NJ 08540

(800) 257-5114
(609) 452-1511 (NJ or Canada)

► Market Microscope

A fundamental analysis package

Price \$699 purchase

Environment Computers: Apple II, II+, IIe; IBM Personal Computer. Main storage: 48K bytes (Apple), 128K bytes (IBM). Source language: not specified.

Capabilities Automatically enters fundamental data, price, and volume information on 3,150 companies and 170 industries. Selects 68 indicators. Sets support and resistance levels. Stores 20 lists, each with up to 50 stocks or industry groups, on one diskette. Accesses all news/retrieval services.

Description The Market Microscope collects, stores, and updates information on extensive lists of companies and industry groups. The system prints data on individual companies, ranks lists by indicators followed, specifies screens for buying and selling, and sets support and resistance levels for automatic notification when stocks reach critical points.

Compatibility Matrix: 214.0025.001
Features Matrix: 214.0030.001

EAGLE SOFTWARE PUBLISHING

993 Old Eagle School Rd
Suite 409
Wayne PA 19087

(513) 489-7901

► Money Decisions Volume 1 and 2

An automated investment and loan analysis accounting system

Price \$199 purchase Volume 1, \$229 purchase Volume 2

Environment Computers: Apple II; IBM Personal Computer; NEC PC-8000; Tandy TRS-80 Model III; Victor 9000; Wang Professional Computer; Digital Equipment Rainbow 100, DECmate II. Main storage: 64K bytes. Source language: BASIC.

Capabilities Provides up to 34 functions for investment, loan, and depreciation activities, including uneven cash flow, net present value, continuous interest compounding, discount of commercial paper, rule of 78s, amortization tables, lease/purchase analyses, and depreciation rates. Uses common input and display format. Screen or hard-copy output.

Description Money Decisions is an interactive financial calculator consisting of two modules. Volume 1 calculates investments, loans, and lease/purchase analyses, and Volume 2 handles regression analysis, exponential smoothing, and job costing functions.

Compatibility Matrix: 214.0025.001

Features Matrix: 214.0030.001

Ensign Software

7337 Northview
Boise ID 83704

(208) 378-8086

► Commodity Futures Historical Price Charts

A financial analysis program

Price \$595 purchase

Environment Computers: any computer running under MS-DOS or PC DOS. Main storage: 192K bytes, hard disk recommended. Source language: CBASIC.

Capabilities Charts historical quotes of commodity prices.

Description This package gives the commodity trader an economical way of maintaining current and accurate charts. Daily price files are updated by modem from the MJK Associates data base, or price data is entered manually. The program plots daily price charts for up to 1 year. Price charts can have 2 moving averages and a parabolic stop line. The program also plots relative-strength charts and provides RSI divergence calculations to help the user decide when to enter and exit the market.

Charts are printed on plain paper by an Epson-type printer.

Compatibility Matrix: 214.0025.001
Features Matrix: 214.0030.001



Ensign Software7337 Northview
Boise ID 83704

(208) 378-8086

► Commodity Futures Real-Time Tic Charts

A financial analysis system

Price \$895 purchase**Environment** Computers: those running under MS-DOS or PC DOS. Main storage: 256K bytes, hard disk recommended. Source language: CBASIC.**Capabilities** Charts quotes on commodity and financial futures in real time.**Description** Commodity Futures Real-Time Tic Charts charts the tic-by-tic quotation data stream broadcast by satellite or FM radio via Bonneville Telecommunication's Market Monitor. Tic charts are drawn in real time as quotes are received from the exchanges on commodities and financial futures. The user can quickly switch back and forth between charts without having to go back to a menu. The chart changing operation typically takes 5 to 10 seconds.

In addition to plotting the price tics, the package plots tic volume and can display 2 commodities on the screen at a time. The user can rapidly switch from a real-time chart to an historical chart to see the current action from a historical perspective. The charts can also include 2 moving averages and the Relative Strength Index report. The package includes historical daily price charts and data management, evaluation of open contract position, and an accounting program to monitor trades, equity, profit and loss. An evaluation copy of the package that does not require the Market Monitor data stream is available for \$50.

Compatibility Matrix: 214.0025.001
Features Matrix: 214.0030.001**EUROPEAN AMERICAN BANK**10 Hanover Sq
New York NY 10015

(212) 437-4300

► Euramicro

A credit analysis package

Price \$4,000 purchase; \$1,000 purchase for optional forecasting programs**Environment** Computers: IBM Personal Computer, Victor 9000, Wang Professional Computer, Zenith Z-100. Main storage: 128K bytes. Source language: BASIC.**Capabilities** Generates full financial reports. Accesses online financial data bases. Financial forecasting. Generates Robert Morris Associates Statement Studies. Provides questionnaires for peer group comparisons.**Description** Euramicro, modeled after the European American Bank (EAB) Eurastar time-sharing system,

aids in credit analysis. Euramicro produces financial reports, comparisons, and forecasts that conform to industry-specific report formats. Line titles, ratios, and other aspects of report formats can be altered to suit specific applications.

When used with a modem, Euramicro downloads information from online financial data bases to be used in offline financial analysis and report generation. Euramicro offers access to the following data bases:

- Eurabank—EAB's file on 2,100 foreign banks
- Compustat—Standard & Poor's file of 7,500 U.S. companies
- FDIC—14,800 U.S. banks
- FSLIC—5,500 U.S. savings and loan associations
- Exstat—2,300 Western European industrials
- Nikkei—1,200 Japanese industrials

In addition to interpreting financial statements, Euramicro offers forecasting capabilities through a subset called Euracast. Up to 25 periods of data can be modeled through the use of historical or projected information to track anticipated changes and trends in various industries.

Compatibility Matrix: 214.0025.001
Features Matrix: 214.0030.001**FINANCIAL SYSTEMS INC**PO Box 2012
Kearney NE 68847

(308) 237-5995

► BankDisk Asset and Liability Management

A management and planning system

Price \$2,495 purchase**Environment** Computers: Apple II+, IIe. Main storage: 64K bytes. Source language: BASIC.**Capabilities** Gap management. Produces asset maturity schedules. Financial forecasting, producing projected income statements for up to 24 months. Produces graphs based on repricing opportunities, interest rate sensitivity gap, and up to 15 key ratios.**Description** The BankDisk Asset and Liability Management package is designed to provide bank managers with a tool for monitoring both current and projected key portfolio positions. The integrated data base can be used for both daily management and profit planning.

BankDisk Asset and Liability Management consists of four programs. Data Maintenance handles balance sheets, income statements, and reinvestment and repricing schedules. Budgeting generates projected and comparative budgets. The Plan allows users to construct reinvestment scenarios based on current budget figures and expected interest rate changes. The final section produces management reports and graphs.

Compatibility Matrix: 214.0025.001
Features Matrix: 214.0030.001

FINANCIAL TECHNOLOGY INC

612 N Michigan Ave
Chicago IL 60611

(312) 280-0600

► Interactive Financial Planning System

An asset/liability and budget management system for microcomputers

Price \$5,000-\$7,000 purchase

Environment Computers: IBM Personal Computer; Victor 9000; Apple II+, III running under UCSD p-System. Main storage: varies. Source language: UCSD Pascal.

Capabilities Asset/liability maturity analysis. Variable horizon gap analysis. Generates balance sheets and income statements. Gap reports showing volume, rate, and gap for current position and forecasting effect of rate-sensitive assets and liabilities on future standings. Supports continuous budget planning with comparison of up to 24 key ratios during one year. Interfaces to various electronic spreadsheet and business graphics programs through Data Interchange Format (DIF) files.

Description The Interactive Financial Planning System combines the continuous process of asset/liability management with the periodic function of budget preparation. Both functions use the same data base in generating reports, allowing close coordination between long-term financial planning and daily management. Summary balance sheets, income statements, rate sensitivity reports, and gap analysis reports are available immediately after any changes are made to the model. The gap reporting function supports flexible user-defined asset and liability planning categories assigned to any of ten funds pools. Each rate-sensitive category can be tied to one of five base interest rates for ease in testing various financial strategies.

Two optional modules are available for use with the Interactive Financial Planning System. The Model Consolidation Program allows departmental models to be consolidated into a summary bank model. The Mainframe-Micro Interface strips and posts data between models running on the microcomputer and application programs and data bases on remote mainframes.

Compatibility Matrix: 214.0025.001
Features Matrix: 214.0030.001

FINSER CORP

2700 NE Blvd
San Antonio TX 78217

(512) 650-5492

► ASSET/LIABILITY MANAGEMENT

A bank management and accounting system

Price \$15,000 purchase

Environment Computers: Alpha Micro computers running under AMOSL or MS-DOS. Main storage: 512K bytes. Source language: BASIC.

Capabilities Financial forecasting for up to 24 months based on past results and constant and assumed variables, including interest rates tied to other key rates through multifunctional relationships. Loan pricing and interest rate spread analysis. Gap analysis. Comparative budgeting. Interfaces to accounting, WP, and spreadsheet modeling programs.

Description ASSET/LIABILITY MANAGEMENT maintains a data base of up to 24 months of past operating results for assets, liabilities, and key ratios. Both ending and average balances can be used to calculate actual or projected net-interest margins, average rates, runoff, sensitivity, interest earned, and interest paid. Subsidiary bank information can be consolidated into a single, overall asset/liability position or selectively analyzed by individual operation. Rate sensitivity can be monitored in one-, two-, three-, four-, six-, or twelve-month periods.

Compatibility Matrix: 214.0025.001
Features Matrix: 214.0030.001

H&H SCIENTIFIC

13507 Pendleton St
Fort Washington MD 20744

(301) 292-2958

► Stock Option Analysis Program (SOAP)

A transaction calculating and graphing program

Price \$250 purchase for Apple computers, \$350 for IBM Personal Computer

Environment Computers: Apple II, II+; IBM Personal Computer. Main storage: 48K bytes for Apple II and II+, 128K bytes for IBM Personal Computer. Source language: BASIC.

Capabilities Calculates and graphs expected profits and losses on stock-option transactions. Calculates expected profit or loss from any trade or spread involving up to three classes of options. Determines fair price of options based on the price of the underlying stock, dividends paid, volatility of the stock, current interest rates, and the time remaining on the option.

Description SOAP tracks stock-option transactions. It analyzes and charts all aspects of stock-option buying, selling, and trading and generates a high-resolution graphics display of profit vs. stock price. It consists of a set of menu-driven programs that update and maintain five data files and one parameter file. Data files include the Option Download File, which contains the ticker symbols and strike prices of user-defined groups of options; the Daily File, which is based on information obtained from the Auto Price Fetch Program; the Volatility File, which contains basic information on a selected list of stocks; the Dates File, which contains the number of business days in each month and the number of business days until the options expire each month; and the Commission Schedule File, which provides data for analysis based on commission records for each broker.

Compatibility Matrix: 214.0025.001
Features Matrix: 214.0030.001



HALE SYSTEMS INC1044 Northern Blvd
Roslyn NY 11576

(516) 484-4545

► Financial Institutions Planning System

A financial management package

Price \$9,500 purchase**Environment** Computers: those running under PC DOS or MS-DOS. Main storage: 512K bytes. Source language: Lotus 1-2-3.**Capabilities** Formulation of asset/liability management models. Consolidation of multiple departments or companies.**Description** Financial Institutions Planning System allows the development and analysis of financial scenarios for up to 3 main offices, 15 regions or branches, and 15 cost centers per region. Through a consolidation process, the user can select the main offices and regions to be analyzed.

Financial Institutions Planning System consists of 5 modules, selected from the main menu: User-Defined Titles, Global Assumption, Head Office Analysis, Region Analysis, and Report Preparation.

The User Defined titles module allows the user to select an account, enter a description, and tie the account to an index rate. There are 3 index rates and 18 asset, 25 liability, 5 noninterest income, and 7 noninterest expense accounts.

Global assumptions include those areas that affect the entire organization, such as the date on which the fiscal year ends, index rates, and tax rates. What-if analysis is accomplished by the global assumption module.

The Head Office Analysis module executes calculations related to the treasury function, some organizationwide activities such as dividend payments, and corporate non-interest payments, income, and expense. Financial Institutions Planning System allows the user to create up to 3 head offices.

The Region analysis module includes the assumptions related to loans, deposits and certificates, and noninterest income and expense. Financial Institutions Planning System allows the user to create 15 regions with up to 15 cost centers each. Assumptions and actual results are on the same page and can be printed.

The Report preparation module prepares reports for regions or for the institution as a whole. There are 13 standard reports, including income statement, balance sheet, sources and uses, yield and ratio, static and dynamic GAP, and budget-to-actual comparison.

Compatibility Matrix: 214.0025.002
Features Matrix: 214.0030.002**HALE SYSTEMS INC**1044 Northern Blvd
Roslyn NY 11576

(516) 484-4545

► PEAR Portfolio Management System

A portfolio reporting package for stockbrokers and investment advisors

Price Purchase: \$600 (Apple II); \$695 (IBM Personal Computer)**Environment** Computers: Apple II, IBM Personal Computer. Main storage: 128K bytes. Source language: not specified.**Capabilities** Entry of securities information through central securities file. Tax lot accounting of buy and sell transactions. Automatic or manual pricing of securities. Stores up to 100 portfolios on one diskette.**Description** PEAR Portfolio Management System provides reports for gain and loss, realized capital gain and loss, security cross-reference reports, income statements, and a complete audit trail.**Compatibility Matrix:** 214.0025.002
Features Matrix: 214.0030.002**HALE SYSTEMS INC**1044 Northern Blvd
Roslyn NY 11576

(516) 484-4545

► PEAR Technical Analysis

A decision support package for portfolio managers, research analysts, and private investors

Price \$1,450 purchase**Environment** Computers: Apple II +, IBM Personal Computer. Main storage: 128K bytes. Source language: not specified.**Capabilities** Creates user-defined decision rule models. Evaluates performance of models over any time period. Analyzes price data using graphics.**Description** PEAR Technical Analysis performs portfolio management and technical research. The program helps research analysts identify profitable strategies for trading and investing and provides graphics, modeling, evaluation, and data retrieval. Automatic pricing is available through DIAL/DATA, which gives micro-computer users access to the Merlin data base of daily and historic pricing information for securities, commodities, stocks, options, bonds, government issues, mutual funds, and financial futures.**Compatibility Matrix:** 214.0025.002
Features Matrix: 214.0030.002

HEWLETT-PACKARD

Personal Office Div
974 E Argues Dr
Sunnyvale CA 94086

(800) 367-4772

► The Portfolio Management Pac

A package for monitoring investment portfolios

Price \$250 purchase

Environment Computers: Hewlett-Packard HP 86. Main storage: 32K bytes. Source language: HP BASIC.

Capabilities Portfolio tracking. Built-in graphics commands for automatic pie chart generation. Investment analysis. Tax planning and investment strategies.

Description The Portfolio Management Pac automatically tracks investments through the Dow Jones News/Retrieval Service. Up to 35 portfolios can be stored on each diskette or tape, with up to 100 investments per portfolio.

Eleven investment classes are built into the software: cash and cash equivalents, common stocks, preferred stocks, warrants, foreign corporated bonds, municipal bonds, mutual funds, treasury issues, real estate, and miscellaneous assets and liabilities. Each investment class is divided into subclasses, and up to 50 subclasses can be user defined. Softkey and prompt-driven commands simplify entries. With a modem connection to the Dow Jones News/Retrieval Service, the system automatically updates the current market value of a portfolio's stocks, bonds, treasury bills, and mutual funds.

The Portfolio Management Pac can also determine the net worth of a portfolio for buy-and-hold strategies and tax planning. With the graphics commands, investors can display holdings in pie chart form on the HP 86 built-in printer or on an optional plotter. Sections of the pie chart can be expanded to depict the appropriate subclasses in a second chart.

Compatibility Matrix: 214.0025.002
Features Matrix: 214.0030.002

INFOWARE

2407 12th Ave S
Nashville TN 37204

(615) 385-1515

► RB3 Relationship Banking System

A customer information and employee training system

Price \$995 purchase

Environment Computers: IBM Personal Computer. Main storage: 128K bytes. Source language: not specified.

Capabilities Maintains user-customized directory of banking services. Records customer name and address for marketing follow-up. Allows bank representatives to respond accurately to customer inquiries on relative benefits or penalties among financial services.

Description RB3 maintains a complete, up-to-date list of a bank's services, organized by category, with information on the terms, conditions, features, and benefits of specific services. The program quickly performs what-if analysis to respond to customer questions about early certificate of deposit withdrawal, IRA plans, installment loan alternatives, tax benefits of borrowing or investing, borrowing to fund an IRA account, and the projected value of an investment. RB3 allows bank managers to customize the program to reflect bank policies, interest rates, or applicable tax structure.

Compatibility Matrix: 214.0025.002
Features Matrix: 214.0030.002

INTERNATIONAL DATA PROCESSING

76 Floral Ave
Murray Hill NJ 07974

(201) 464-6009

► IDP/Brokerage Administration System I

Provides administrative support for insurance brokers

Price \$995 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT; Apple III. Main storage: 256K bytes. Source language: COBOL.

Capabilities Maintains data on applications received and policies in force. Provides information on agents, clients, products, and issuing companies. Monitors and distributes commissions, bonuses, and allowances.

Description IDP/Brokerage Administration System I supports the administration of an insurance brokerage handling life, health, and annuity products. The system tracks prospects, applications, rejections, and policies in force. Users can make detailed inquiries or request summary reports by agent, policy, client, product, or issuing company.

Accounting and commission reporting features are provided. Payment of commissions can be reported in detail or in bulk. All payments are recorded by agent; commission statements are generated with the checks.

Reports include cash flow projections, Form 1099 tax reports, automated client follow-up, and mailing labels.

Compatibility Matrix: 214.0025.002
Features Matrix: 214.0030.002



ISYS CORP

PO Box 214
Cambridge MA 02238

(617) 491-6221

► MICRO/SCAN

A diskette-based investment data base

Price \$6,250-\$12,000 annual license

Environment Computers: IBM Personal Computer, Personal Computer XT; Apple II+, IIe, III; Digital Equipment Rainbow 100. Main storage: varies. Source language: Pascal.

Capabilities Provides access to large-scale data base on more than 7,500 publicly held companies. Includes software to screen, sort, rank, and analyze data base records. Report writer, allowing data from two or more data bases to be merged for one report. Interfaces to VisiCorp VisiCalc, Lotus 1-2-3, or Microsoft Multiplan.

Description MICRO/SCAN is a subscription service that provides users with diskette-based financial data bases and the software to analyze and manipulate data. Users can choose from five comprehensive data bases:

- Ford Investor Services (1,400 companies)
- Merrill Lynch Equity Research (1,400 companies)
- I/B/E/S (2,400 companies)
- Disclosure II (7,500 companies)
- Financial Post (350 Canadian companies)

Each data base maintains information on 52 financial variables for each company. Information can be updated through two methods. With the first method, Isys provides a new diskette on a monthly basis; information is updated on the last business day of each month and delivered to users overnight by Federal Express. With the second method, users access the Isys One/Source telecommunications service to update data base diskettes. Approximately 18,000 data items can be updated on diskette in less than five minutes; this service is available at an additional charge on a daily, weekly, or on-demand basis.

Compatibility Matrix: 214.0025.002
Features Matrix: 214.0030.002

LITTLEWOOD, SHAIN & CO

175 Strafford Ave
Wayne PA 19087

(800) 345-1245
(215) 687-5467

► Financial Management System (FMS)

An asset/liability planning and simulation modeling system for banks

Price \$6,000 (5-year license)

Environment Computers: Apple III or those running under MS-DOS. Main storage: 128K bytes. Source language: Pascal.

Capabilities Flexible account structure and user-defined maturity delineations for reporting. Five alternate projection methods for forecasting and modeling.

Performs gap analysis. Generates asset maturity schedules, income statements, and balance sheets. Determines rate sensitivity, peer group interest rate spreads, and net-interest margins.

Description FMS is a forecasting, reporting, and simulation model to assist in managing the assets and liabilities of banks with \$20 million to \$800 million in assets. The system features a comprehensive approach to financial planning that provides greater control over risk management and improves net income. FMS consists of three integrated modules:

- Strategic Planning—Evaluates product strategies, capital position, and growth plans over a five-year period.
- Profit Planning—Projects balance sheets and income statements over an unlimited planning horizon.
- Funds Management—Analyzes liquidity and interest rate sensitivity. This module measures earning asset efficiency through net-interest margin and interest spread analysis.

Compatibility Matrix: 214.0025.002
Features Matrix: 214.0030.002

METAMORPHICS INC

Two Bala Plaza
Bala Cynwyd PA 19004

(800) 523-0206
(215) 668-9000

► Metamorphics Insurance System (MIS)

A transaction accounting and market tracking system for insurance agencies

Price \$2,650 purchase

Environment Computers: Those running under PC DOS or MS-DOS. Main storage: 128K bytes. Source language: Advanced BASIC.

Capabilities Menu driven. Integrated invoicing, cash receipts, and aged accounts receivable. Automatic posting and disbursement to user-defined general ledger journal. Accounts payable. Maintains client list and marketing leads for producing mailing labels or merged-mail form letters.

Description The Metamorphics Insurance System is an integrated accounting system for insurance agencies handling up to \$1 million per year in premiums. The system automates billing and accounts receivable functions and tracks policy expiration dates and marketing prospects. Metamorphics offers several additional modules to handle claims, rating, and risk analysis.

MIS is available from IBM as the IBM Personal Insurance Agency System.

Compatibility Matrix: 214.0025.002
Features Matrix: 214.0030.002

MICRO INFORMATION SYSTEMS

Route 309 & Richardson Rd
Montgomeryville PA 18936

(215) 855-2700

► TAXEXEC

A tax return preparation package

Price \$995 purchase

Environment Computers: any running under CP/M or MS-DOS. Main storage: 48K bytes for CP/M, 128K bytes for MS-DOS. Source language: CBASIC.

Capabilities Checks for errors. Previews tax return before printing. Prints on preprinted forms or continuous-form blank paper (by using mylar overlays). Handles multiple changes. Menu driven.

Description TAXEXEC prepares U.S. Individual Income Tax Returns and selected state returns. Clerical personnel can operate the system. The system prepares overflow schedules for items that exceed normal space allotments and performs such computations as exclusions, limitations, sales tax tables, income tax amounts, penalties, and exemptions.

Compatibility Matrix: 214.0025.002

Features Matrix: 214.0030.002

MICRO INVESTMENT SYSTEMS

PO Box 8599
Atlanta GA 30306

(404) 892-3194

► Stock Portfolio Reporter

A portfolio analysis system for investors

Price \$279 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT; COMPAQ; Eagle Personal Computer. Main storage: 128K bytes. Source language: Compiled BASIC.

Capabilities Sorts P/E multiples, dividend yields, gain (or loss) amounts, or others. Classifies stocks into groups for reporting. Adjusts for stock splits and stock dividends. Displays and prints reports. Menu driven.

Description The Stock Portfolio Reporter provides portfolio analysis of stock accounts and handles up to 200 stocks. Users can perform market price updates using the Dow Jones News/Retrieval Service. The system provides stock prices, dividend yields, total cost and market amounts, estimated dividend income, gains and losses, price/earning multiples, percentage gains and losses, and relative strength indexes.

Compatibility Matrix: 214.0025.002

Features Matrix: 214.0030.002

MTECH MICRO SERVICES

9810 E 42nd St
Suite 200
Tulsa OK 74146

(918) 744-8009

► MTech Asset/Liability Management System

A management and planning program

Price \$4,000 purchase

Environment Computers: microcomputers running under CP/M, CP/M-86, PC DOS, or MS-DOS. Main storage: varies. Source language: RM/COBOL.

Capabilities Gap analysis. Periodic and cumulative asset maturity schedules. Determines rate sensitivity and analyzes rate spread. Generates balance sheets and income statements. Analyzes key budgeting and operating ratios. User-defined account structure and chart of accounts. Strategic planning. Optional interface to Thunderbird accounting system.

Description The Thunderbird Asset/Liability Management System is a comprehensive microcomputer-based planning and asset/liability management tool. The strategic planning module allows users to construct multiple what-if and change-in-income scenarios. The program can automatically revise plans based on user-defined account and interest rate relationships.

Compatibility Matrix: 214.0025.003

Features Matrix: 214.0030.003

N-SQUARED COMPUTING

5318 Forest Ridge Rd
Silverton OR 97381

(503) 873-5906

► N² Market Analyzer

A financial analysis program

Price \$295 purchase

Environment Computers: Those running under PC DOS. Main storage: 128K bytes. Source language: Applesoft BASIC.

Capabilities Menu driven. Graphics. Allows two time series, with up to 52 periods each, to be overlaid on same graph. Performs exponential smoothing, moving averages, detrending, ratios, transformations, and other statistical functions. Supports user-defined functions. Optional modem support.

Description N² Market Analyzer compares and analyzes various technical indicators. The program includes a data base of 130 statistics, comprising more than two years of weekly market data compiled from Barron's Market Laboratory. The optional N-Squared Interface program (\$45 purchase) can be used to update and reformat the data base.

Compatibility Matrix: 214.0025.002

Features Matrix: 214.0030.002



N-SQUARED COMPUTING

5318 Forrest Ridge Rd
Silverton OR 97381

(503) 873-5906

► N² Market Illustrator

An investment analysis program

Price \$195 purchase

Environment Computers: Apple II+ and IIe and those running under PC DOS. Main storage: 48K bytes for Apple II+ and IIe, 128K bytes for computers running under PC/DOS. Source language: Applesoft BASIC.

Capabilities Menu driven. Compares and graphs selected stocks and indicators using various techniques. Maintains data base of 130 market statistics compiled from Barron's Market Laboratory. Optional modem support.

Description N² Market Illustrator includes two complementary programs for plotting and comparing individual stocks and commodities against major market indicators.

Compatibility Matrix: 214.0025.002

Features Matrix: 214.0030.002

N-SQUARED COMPUTING

5318 Forrest Ridge Rd
Silverton OR 97381

(503) 873-5906

► N² Stock Analyzer

A comprehensive individual stock analysis program

Price \$295 purchase

Environment Computers: Apple II+ and IIe and those running under PC DOS. Main storage: 48K bytes for Apple II+ and IIe, 128K bytes for computers running under PC DOS. Source language: Applesoft BASIC.

Capabilities Menu driven. Graphics, with linear or semilog autoscaling and time periods of up to 240 days. Produces open/high/low/close charts as well as volume and O/I charts. Performs exponential smoothing, moving average, and automatic trend determination.

Description N² Stock Analyzer consists of a graphics program and technical analysis program. The graphics program supports both time-line plotting and point and figure plotting. The technical analysis module incorporates the functions required for detailed studies of individual stocks and commodities. It includes routines for price/volume indicators and the capability for creating and testing user-defined indicators.

Compatibility Matrix: 214.0025.002

Features Matrix: 214.0030.002

PLANSMITH CORP

50 N Brockway
Palantine IL 60067

(312) 359-4045

► THE PLANSMITH

An asset and liability management and planning system

Price \$7,500-\$12,500 purchase

Environment Computers: microcomputers running under CP/M, PC DOS, or MS-DOS. Main storage: 64K-128K bytes. Source language: Microsoft BASIC.

Capabilities Static and dynamic gap analysis. Produces asset maturity and repricing opportunity schedules. Generates balance sheets and income statements. Determines rate sensitivity. Comparative modeling with up to five scenarios running simultaneously. Multibank model consolidation. Supports Data Interchange Format (DIF) interface to other software programs.

Description THE PLANSMITH is a complete set of planning tools and reports for profit planning, asset/liability management, and budget variance analysis. THE PLANSMITH has been available for mainframe computers on a time-sharing basis since 1973.

Compatibility Matrix: 214.0025.002

Features Matrix: 214.0030.002

REVEAL SOFTWARE

380 N Broadway
Jericho NY 11753

(516) 935-2000

► REVEAL

A portfolio management package for brokers

Price \$1,550 purchase

Environment Computers: Apple II, III; IBM Personal Computer. Main storage: 48K bytes (Apple II); 128K bytes (Apple III, IBM Personal Computer). Source language: not specified.

Capabilities Lists information by date. Sends reports and memos to clients.

Description REVEAL is a portfolio and client management system that scans and changes existing clients and prospects and enters new ones. The system generates client reports by name, account, or user-selected specifications. The system generates portfolio reports for a single or all clients. Appraisal summary reports list each open position and summarize cost, value, and realized and unrealized gain/loss by long and short positions for long and short term. Appraisal detail reports show each open transaction. Trade reports provide detail accounting of all transactions from a specified date.

Compatibility Matrix: 214.0025.002
Features Matrix: 214.0030.002

GARY ROBBEN & ASSOCIATES

6740 Antioch Rd
Merriam KS 66204

(913) 677-3383

► A/L Monitor

An asset/liability management and inventory program

Price \$12,000 purchase

Environment Computers: Those running under PC DOS. Main storage: 256K bytes. Source language: Compiled BASIC.

Capabilities Gap analysis. Produces asset maturity schedules. Generates balance sheets using perpetual inventory of assets and liabilities. Determines rate sensitivity. Produces Schedule J reports. Interfaces to VisiCorp VisiCalc for enhanced financial planning.

Description A/L Monitor reports are generated from actual daily data. Interest income and expense, gap analysis, and the tracking of asset maturity and repricing intervals can be reported on a daily, weekly, monthly, quarterly, or yearly basis. The program maintains a detailed daily trial balance and transaction journal. Two VisiCalc models—Balance Sheet Analysis and Current Rate Impact Analysis—are included with A/L Monitor.

Compatibility Matrix: 214.0025.002
Features Matrix: 214.0030.002

SAVANT CORP

PO Box 440278
Houston TX 77244-0278

(800) 231-9900

► THE FUNDAMENTAL INVESTOR

An investment analysis package

Price \$395 purchase

Environment Computers: those running under PC DOS. Main storage: 256K bytes. Source language: BASIC, Assembly, C.

Capabilities Contains fundamental analysis and communications programs and a fundamental data base.

Description The fundamental data base allows the user to store over 30 parameters on 2,000 securities. Data can be entered and edited manually, or it can be entered automatically by modem. The analysis program screens all securities in the data base that are greater than, less than, or equal to each parameter; sorts stocks according to a single parameter; calculates financial ratios from basic financial information (through the use of spreadsheetlike functions); and sorts stocks according to the weighted average of a group of parameters. The communications program automatically retrieves fundamental data from online data bases.

Compatibility Matrix: 214.0025.002
Features Matrix: 214.0030.002

SAVANT CORP

PO Box 440278
Houston TX 77244-0728

(800) 231-9900

► OPTIONCALC

A financial analysis package

Price \$89 purchase

Environment Computers: those running under PC DOS or Apple DOS. Main storage: 128K bytes under PC DOS, 64K bytes under Apple DOS. Source language: Compiled BASIC.

Capabilities Performs valuation calculations on options. Uses Black and Scholes model.

Description The package calculates the theoretical value of put options according to the call price and an efficient market place. The user need only enter some easily obtained financial information on the option and the underlying stock, such as the stock price, stock dividend, option striking price and expiration date, the number of days to expiration, the hedge ratio (or delta, the amount that the value of the call option will change as a result of a \$1 change in the underlying stock price), and the put and call symbols.

Compatibility Matrix: 214.0025.002
Features Matrix: 214.0030.002



SAVANT CORP

PO Box 440278
Houston TX 77244-0278

(800) 231-9900
(713) 556-8363

► THE TECHNICAL INVESTOR

A technical data base and graphics program

Price \$395 purchase

Environment Computers: IBM Personal Computer, microcomputers running under MS-DOS. Main storage: 128K bytes. Source language: BASIC, Assembly.

Capabilities Offers numerous features. Maintains user-defined data base of securities. Supports data communications to Dow Jones News/Retrieval Service. Graphs information into price and volume bar, high/low/close, price/volume trend indicator, and exponential and moving average charts.

Description THE TECHNICAL INVESTOR consists of charting, communications, and technical data base modules. The data base allows each diskette to hold up to one year's data on daily, high, low, close, and volume for 80 securities. The program allows the data base to be updated manually or through the Dow Jones News/Retrieval Service. The communications module enables users to update selected securities. A summary report is automatically generated after each update session, highlighting price and volume changes. The graphics module allows four independent windows to be displayed simultaneously.

Compatibility Matrix: 214.0025.002
Features Matrix: 214.0030.002

SENDERO

4815 N 14th Pl
Phoenix AZ 85014

(602) 279-0401

► Micro-FRS

An asset/liability management system for banks and savings and loan associations

Price \$3,500-\$11,500 purchase

Environment Computers: IBM Personal Computer, many microcomputers running under MS-DOS. Main storage: 128K bytes. Source language: PLAN 80.

Capabilities Generates financial statements. Financial forecasting. Calculates interest rates. Prints Schedule J reports.

Description Micro-FRS, an asset/liability and financial planning system, aids banking professionals in making repricing and planning decisions. It is designed for banks with up to \$5 billion in assets.

Micro-FRS features:

- **Target Balancing**—After goals have been established for profit planning, the system calculates an action plan showing the new volumes necessary to meet the goals.

- **Rate Generation**—Rates can be entered manually or generated automatically based on a few key rates and user-defined relationships.
- **Gap Analysis**—Repricing differences are reported for current period assets and liabilities (Static Gap) and future period assets and liabilities based on the target plan (Dynamic Gap).

Micro-FRS is menu-driven and can be installed and used by nontechnical personnel with a minimum of training.

Compatibility Matrix: 214.0025.002
Features Matrix: 214.0030.002

SINGLE SOURCE SOLUTION

2637 Pleasant Hill Rd
Pleasant Hill CA 94523

(415) 680-0202

► BUYSEL

A system of routines for making buy and sell decisions

Price \$149 purchase

Environment Computers: any microcomputer running under CP/M or CDOS. Main storage: 64K bytes. Source language: not specified.

Capabilities Optimizes mathematical and statistical routines. Indicates daily buy and sell signals. Creates and validates price history files. Computes commission for commodities on a flat-rate basis and, for stock and options, on a rough-percentage basis.

Description The BUYSEL program supports portfolio management and analysis. It includes moving average, maximum/minimum, average down/sell up, and correlation methods.

Compatibility Matrix: 214.0025.002
Features Matrix: 214.0030.002

SINGLE SOURCE SOLUTION

2637 Pleasant Hill Rd
Pleasant Hill CA 94523

(415) 680-0202

► PORTMAP

An investment portfolio analysis system

Price \$79 purchase

Environment Computers: IBM Personal Computer, microcomputers running under MS-DOS and CP/M. Main storage: not specified. Source language: Microsoft BASIC.

Capabilities Analyzes investment portfolios of stocks, bonds, moneymarket instruments, or other securities. Interactive data entry.

Description PORTMAP processes portfolios by selecting data from a portfolio or an individual account. The summary report analyzes cost basis, number of securities, and expected income by account, type of security, month of payment, and type of tax liability (federal, state, or nontaxable). The gain/loss report analyzes market values, gains and losses, and holding period by individual lot. PORTMAP also reports on type of security and margin account status and gathers all data required for Schedule D.

Compatibility Matrix: 214.0025.002

Features Matrix: 214.0030.002

SOFTWARE RESOURCES

330 Congress St
Boston MA 02210

(617) 482-3341

► PRO/VEST

A portfolio accounting system

Price \$5,500 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT. Main storage: 256K bytes. Source language: Pascal.

Capabilities Handles any number of portfolios. Generates reports for clients and management. Provides on-line access to current and as-of security prices.

Description PRO/VEST provides portfolio accounting for all types of stocks, bonds, options, mutual funds, cash equivalents, and other asset transactions, including short sales. Portfolios of up to \$999 million can be tracked and can include principal and income cash positions figures. In addition, the system can support both individual and combined portfolios, keep track of client, broker, and commissions data, and generate reports.

Compatibility Matrix: 214.0025.002

Features Matrix: 214.0030.002

SPOT SYSTEMS INC

690 Market St
Suite 617
San Francisco CA 94104

(415) 982-8150

► Foreign Exchange Trading System

An investment analysis package

Price Vendor declined to provide

Environment Computers: those running under PC DOS or MS-DOS. Main storage: 128K bytes, 10M-byte hard disk required. Source language: COBOL.

Capabilities Processing of spot, forward, and option contracts. Processing of other foreign currency cash flows being hedged. Monitoring of customer positions against credit and settlement limits, including consolidation of customer subsidiary relationships. Detailed analysis of maturity positions with break-even calculations and gap reporting. Revaluation of contracts to current forward rates.

Description All contract data is immediately included in the customer and maturity position displays. Settlement data can be entered at the initial capture or at any time before maturity and allows the establishment of standard instructions.

The customer position report compares outstanding contracts with customer limits and allows the grouping of multiple subsidiaries under a single parent customer. Both detail and summary formats are provided.

The maturity position display analyzes all contracts by currency and maturity date. It calculates net and cumulative positions and a break-even rate for each date with maturing contracts. The report also performs gap calculations.

The Foreign Exchange Trading System provides an interface that contains provisions for all the major foreign exchange accounting techniques, including calculation of profit or loss at maturity, revaluation based on spot or forward exchange rates, generation of entries to memo, and the use of due-to/due-from accounts.

Each product can have its own set of accounting rules and applicable general ledger account numbers. The general ledger entries automatically produced are fully compatible with the Spot System Multi-Currency General Ledger system.

The Foreign Exchange Trading System incorporates the financial controls demanded of a system responsible for such information.

A 2-level security system provides protection from unauthorized users and permits the user to restrict certain functions to supervisory personnel.

The system can be integrated with the Spot Systems Money Market Trading System and provides for the establishment of a common data base for customers, credit limits, and currency rates.

Compatibility Matrix: 214.0025.003

Features Matrix: 214.0030.003



SPOT SYSTEMS INC

690 Market St
Suite 617
San Francisco CA 94104

(415) 982-8150

► Money Market Trading System

An investment management package

Price Vendor declined to provide

Environment Computers: those running under PC DOS or MS-DOS. Main storage: 128K bytes, 10M-byte hard disk required. Source language: COBOL.

Capabilities Gives trading personnel access to real-time information on commitments, outstandings, rates, and positions. Enables management to obtain profitability information and monitor compliance with credit and position limits. Monitors customer limits and outstandings and consolidates relationships between customer parents and subsidiaries. Provides a detailed cash-flow analysis including calculations of gaps and effective yields. Issues payment instructions for contracts reaching value date and maturity date.

Description All contract data is immediately included in the customer and cash-flow displays and reports. Payment instructions can be entered at the initial capture or at any time before value or maturity date. The package allows the establishment of standard instructions.

The Customer Outstandings Report compares commitments and outstandings with customer credit limits and allows the grouping of multiple subsidiaries under a single parent customer. Both detail and summary formats are provided.

The Maturity Position Display analyzes all contracts by currency, value date, and maturity date. It calculates net and cumulative cash flows and a weighted average rate for each date with contract activity.

The Money Market Trading System provides an accounting interface that enables the user to define each money market product to be processed by the System. The user establishes product codes and attributes as well as the rules governing the interface to the user's General Ledger. The System supports multiple profit centers in a single data base. In addition, the System can be integrated with the Spot Systems Foreign Exchange Trading System and Multi-Currency General Ledger.

Compatibility Matrix: 214.0025.003
Features Matrix: 214.0030.003

TECHNICAL ANALYSIS GROUP

1021 Ninth St
New Orleans LA 70115

(800) 535-7990

► CompuTrac/CompuTrac-PC

A technical analysis package for stock or commodities traders

Price \$1974 purchase for Apple computers, \$1,900 for IBM computers

Environment Computers: Apple II+, IIe; Franklin Ace 1000; IBM Personal Computer, Personal Computer XT. Main storage: 64K bytes for Apple computers, 256K bytes for IBM computers. Source language: BASIC, machine language.

Capabilities Generates hard copy. Provides program updates.

Description CompuTrac/CompuTrac-PC is an integrated collection of programs for stock or commodities traders using technical analysis as a trading tool. Users can display and print bar charts and more than 45 studies (for the Apple) or 25 studies (for the IBM). The program is compatible with commercial data bases offering price history.

Compatibility Matrix: 214.0025.003
Features Matrix: 214.0030.003

TECHNICAL ANALYSIS GROUP

1021 Ninth St
New Orleans LA 70115

(800) 535-7990

► Intra Day Analyst/Intra Day Analyst-PC

A technical analysis package for real-time commodity price data

Price \$1,575 for Apple computers, \$1,600 for IBM computers

Environment Computers: Apple II+, IIe; Franklin Ace 1000; IBM Personal Computer, Personal Computer XT. Main storage: 64K bytes (Apple, Franklin), 256K bytes (IBM). Source language: BASIC, machine language.

Capabilities Generates hard copy. Provides program updates.

Description Intra Day Analyst/Intra Day Analyst-PC analyzes real-time, variable-length charts for up to 20 commodities. Users can track any of 20 commodities along with any of 14 studies for each bar chart.

Compatibility Matrix: 214.0025.003
Features Matrix: 214.0030.003

TECHNICAL DATA

330 Congress St
Boston MA 02210

(617) 482-3449

► Yield Calculator

A bond-market analysis package

Price \$375 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT. Main storage: 192K bytes. Source language: Pascal.

Capabilities Provides price and yield calculations on bonds, notes, and money-market securities. Menu driven.

Description Yield Calculator was designed to aid the bond-market professional in the analysis of bonds, notes, and money-market instruments. The program calculates price and yield calculations on bonds, notes, and money-market securities. Calculations for bonds and notes include standard yield and price calculations and bonds with odd first coupons. Calculations for money-market securities include discount issues and interest-at-maturity issues. Yield Calculator includes four modules: Standard Bond Price and Yield Calculations, Bonds with Odd First Coupons, Money Market Instruments—Discount Issues, and Interest at Maturity Issues.

Compatibility Matrix: 214.0025.003
Features Matrix: 214.0030.003

UNION PLANTERS NATIONAL BANK

6077 Primacy Pkwy
Suite 427
Memphis TN 38119

(800) 238-6737

► PROPHET

An asset/liability modeling system for microcomputers

Price \$10,000 purchase

Environment Computers: microcomputers running under PC DOS or MS-DOS. Main storage: 192K bytes. Source language: Microsoft BASIC.

Capabilities Gap analysis. Asset/liability maturity schedules. Produces balance sheets and income statements. Calculates weighted average rates. Maintains audit trail on items entered. Automatic data rolling for monthly update of models.

Description PROPHET is a simulation model designed to stabilize earnings by analyzing potential vulnerability to changing interest rates. PROPHET allows users to identify the causes of interest rate sensitivity and then test the impact of various corrective strategies. The program accepts input in either detailed or summary format. PROPHET calculates gap positions at 30-, 90-, 180-, 360-, and greater-than-360-day maturities. It also forecasts gap positions for various periods in the future. PROPHET generates a loan repricing report that shows potential repricing opportunities for the next 12 months.

Compatibility Matrix: 214.0025.003
Features Matrix: 214.0030.003

VALUE LINE INC

711 Third Ave
New York NY, 10017

(212) 687-3965

► Value/Screen

A data base investment selection package

Price \$443 purchase

Environment Computers: those running under UCSD p-System. Main storage: 64K bytes. Source language: Pascal.

Capabilities Screens a data base of 1,600 stocks using user-defined search criteria. Updates data base monthly. Generates full-page reports on individual stocks.

Description Value/Screen is a subscription product that permits a user to select stocks for investment by screening a data base of 1,600 common stocks. The data base is delivered on a diskette that is received by mail either monthly or quarterly, according to the subscription plan chosen.

The data base consists of 32 key investment indicators on each of the 1,600 stocks. The user can formulate 9 simultaneous criteria by selecting from among the 32 variables and placing limits on the allowable values. Screening is accomplished in less than a minute.

After screening, the user can create a tabular report on the stocks that meet the criteria, analyze this group in terms of any selected variable, or obtain full-page reports on an individual stock.

Screened lists can be saved to disk for periodic rescreening or report writing based on future data. The user can create and save other stock lists by typing in ticker symbols from the keyboard. Data on personal holdings can be added so that Value/Screen can be used as a portfolio management and analysis system. Automatic portfolio valuations can be performed through use of the recent stock prices contained on the data disks. Up to 40 stock lists can be maintained on disk.

Compatibility Matrix: 214.0025.003
Features Matrix: 214.0030.003



VINING-SPARKS SECURITIES INC889 RidgeLake Blvd
Memphis TN 39119(800) 762-5800
(901) 766-4442**► Vining Asset/Liability Management System**

A financial planning system

Price \$6,000–\$10,000 purchase**Environment** Computers: Apple III; IBM Personal Computer and Personal Computer XT running under UCSD p-System. Main storage: 128K bytes. Source language: Pascal.**Capabilities** Performs maturity and forward gap analysis. Profit planning, combining current standings with projected prime-rate spread and asset/liability repricing opportunities. Determines rate-pricing guidelines for Money Market Savings and SuperNOW accounts. Recaptures prior-year taxes for net operating loss.**Description** The Vining Asset/Liability Management System is a flexible tool for determining the sensitivity of current and projected balance sheets to interest rate changes. If the system determines that rate sensitivity is acute, users can model the impact of various corrective procedures. The Vining model automatically accepts current balance sheet data as a starting point for management projections.**Compatibility Matrix:** 214.0025.003**Features Matrix:** 214.0030.003

VINING-SPARKS SECURITIES INC889 RidgeLake Blvd
Memphis TN 39119(800) 762-5800
(901) 766-4442**► Vining Bond Swap System**

A financial planning tool

Price \$1,500–6,000 purchase**Environment** Computers: Apple II, III; IBM Personal Computer, Personal Computer XT. Main storage: 64K bytes for Apple computers, 128K bytes for IBM computers. Source language: BASIC.**Capabilities** Determines relative differences in benefits offered when purchasing different bonds or securities under various interest rates. Calculates break-even point of securities sold. Assists in tax planning.**Description** The Vining Bond Swap System analyzes any two fixed-income securities and determines the benefits of acquiring or divesting one or the other by weighing the characteristics of each security against a bank's current financial and tax position. The system considers coupon income, accretion, amortization, state and federal taxes, timing of coupon payments, and accrued interest paid or received.**Compatibility Matrix:** 214.0025.003**Features Matrix:** 214.0030.003

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Andent		Cash Management System (Appel & Kreiss Software)	215.0035.003
Appointments	215.0035.002	Cath Lab Support System (Trinity Computing Systems)	215.0035.029
Another Direction		CCU Support System (Trinity Computing Systems)	215.0035.029
RAISE (Results Assured in Solicitation Efforts)	215.0035.003	Chiropractic (CYMA)	215.0035.010
Appel & Kreiss Software		Client Accounting Systems	
Cash Management System	215.0035.003	Practitioner's Software Package	215.0035.007
Employee Opinion Survey	215.0035.003	Time and Billing System	215.0035.007
Appointments (Andent)	215.0035.002	Client Accounting/Management System (System Integration Associates)	215.0035.027
Arlington Software + Systems		Client Ledger System (TCS Software)	215.0035.028
Personal Computer Automated		Client Medical Billing System (CMA Micro Computer)	215.0035.007
Telemarketing (PCAT)	215.0035.003	Client Write-up System (Micro Business Systems)	215.0035.018
Attorney's Reminder Calendar (Bear Computers)	215.0035.005	CMA Micro Computer	
Attorney's Time and Billing (Bear Computers)	215.0035.005	Client Medical Billing System	215.0035.007
AUDIT (EF Haskell & Associates)	215.0035.014	CMV General Business System (CMV Software Specialists)	215.0035.008
Automated Language Processing Systems		CMV Software Specialists	
Automated Language Processing Systems (ALPS)	215.0035.004	CMV General Business System	215.0035.008
Automated Language Processing Systems (ALPS) (Automated Language Processing Systems)	215.0035.004	PROTAB	215.0035.008
Aviation Analysis		Comprehensive Medical Management of the Apple (COMMA) (SPECTRA/SOFT)	215.0035.026
Aircraft Department Management System (ADMS)	215.0035.004	Compugraphic	
		Personal Composition System	215.0035.008
		Compupeg	
		Health Care Accounting Package	215.0035.008

Description	Report Number	Description	Report Number
Compusol		Enterprise Computer System	
Dental Lab IV	215.0035.009	BMS (Builders Management System)	215.0035.013
Computer Consulting Services		ESQ-1 Legal Time and Billing (Micro Information Systems)	215.0035.019
Professional Timekeeping System	215.0035.009	Execuware	
Computer Task Group		Real Estate Analysis Package (REAP)	215.0035.013
HERCULES	215.0035.009		
Computone Systems		Farm and Grower Commodity Sales and Billing (Micro-Crop)	215.0035.020
The Grain Accounting Management System	215.0035.009	Farm Equipment Dealer (Micro-Crop)	215.0035.020
Construction (CYMA)	215.0035.010	Farmland Computer Systems	
CONTRACTOR III (A-Systems)	215.0035.004	Crop Management Package	215.0035.014
Country Club Accounting (Ohio Data Base)	215.0035.022	Dairy Herd Management Package	215.0035.014
CPApartner (Starsoft)	215.0035.027	Farms Supplies Management (Micro-Crop)	215.0035.021
Crop Management (Micro-Crop)	215.0035.020	Fast Food Management System (Cado Systems)	215.0035.006
Crop Management Package (Farmland Computer Systems)	215.0035.014	Feedlot System (Micro-Crop)	215.0035.021
CYMA		Feith Systems & Software	
Chiropractic	215.0035.010	Rental Property Management	215.0035.014
Construction	215.0035.010	Fertilizer Dealer (Micro-Crop)	215.0035.021
Dental	215.0035.010	Field Companion (Digital Marketing)	215.0035.013
Medical	215.0035.011	Financial Package for Service Stations (FPSS) (Single Source Solution)	215.0035.024
Orthodontic	215.0035.011		
Dairy Herd Management Package (Farmland Computer Systems)	215.0035.014	Grants Accounting System (Designers & Builders of Information Systems (DBIS))	215.0035.011
DATAWRITE Client Write-up System (Accountants Microsystems)	215.0035.001		
Datebook II (Digital Marketing)	215.0035.012	Health Care Accounting Package (Compupeg)	215.0035.008
Dental (CYMA)	215.0035.010	HERCULES (Computer Task Group)	215.0035.009
Dental Lab IV (Compusol)	215.0035.009	HOTEL-2000 (Unique Information Systems)	215.0035.030
Dental Management System (OR-D Systems)	215.0035.022	Howard Software Services	
Dental System (System Integration Associates)	215.0035.027	Real Estate Analyzer	215.0035.015
Designers & Builders of Information Systems (DBIS)		Human Edge Software	
Grants Accounting System	215.0035.011	The Sales Edge	215.0035.016
Retail Pharmacy System	215.0035.012		
Vehicle Reservation System	215.0035.012	Incom Systems	
Digital Marketing		CAM-II	215.0035.016
Datebook II	215.0035.012	Information Network Systems	
Field Companion	215.0035.013	Video Software Management System	215.0035.016
Direct Aid		Innovative Software Associates	
LawSearch	215.0035.013	VIDEO/TRAK	215.0035.016
		International Micro Systems (IMS)	
Echocardiography Support System (Trinity Computing Systems)	215.0035.030	Medical Office Management System	215.0035.017
EF Haskell & Associates		JEB Systems	
AUDIT	215.0035.014	Market Management System (MMS)	215.0035.017
Job Cost (CropCost)	215.0035.014	Jersey Micro Systems	
Programmed Assignment of Client Engagement (PACE)	215.0035.015	Property Management	215.0035.017
TKR III	215.0035.015	Job Cost (CropCost) (EF Haskell & Associates)	215.0035.014
UTILIBILL	215.0035.015		
Employee Opinion Survey (Appel & Kreiss Software)	215.0035.003	LawSearch (Direct Aid)	215.0035.013
		Legal Management System (OR-D Systems)	215.0035.023

Description	Report Number	Description	Report Number
Marine Management Systems		Pacemaker Follow-up System (Trinity Computing Systems)	215.0035.030
MMS CARGODOC	215.0035.018	Personal Composition System (Compugraphic)	215.0035.008
Market Management System (MMS) (JEB Systems)	215.0035.017	Personal Computer Automated Telemarketing (PCAT) (Arlington Software + Systems)	215.0035.003
MedAccount (Software Products International)	215.0035.026	planEASE Economic Analysis System (Analytic Associates)	215.0035.002
Medical (CYMA)	215.0035.011	Practitioner's Software Package (Client Accounting Systems)	215.0035.007
Medical Care Office System (MEDCOS) (Business Management Systems)	215.0035.006	Pro-Claim (TMS/ MSC)	215.0035.029
Medical Management System (OR-D Systems)	215.0035.023	Professional Computer Services Advanced Legal Software (ALS)	215.0035.023
Medical Manager (Systems Plus)	215.0035.028	Professional Job Accounting and Control System (PJACS) (SBCC & ELCO Systems)	215.0035.024
Medical Office Management System (International Micro Systems (IMS))	215.0035.017	Professional Software Innovations Ultra Professional Time Billing System	215.0035.023
MEDIC80 (Basis)	215.0035.005	Professional Time Accounting (Bristol Information Systems)	215.0035.005
Membership Billing (Micro Data Business Forms & Systems)	215.0035.018	Professional Time and Billing (PROMOT) (Micro Information Systems)	215.0035.019
Micro Business Systems		Professional Timekeeping System (Computer Consulting Services)	215.0035.009
Client Write-up System	215.0035.018	Programmed Assignment of Client Engagement (PACE) (EF Haskell & Associates)	215.0035.015
Micro Data Business Forms & Systems		PROpartner (Starsoft)	215.0035.027
Membership Billing	215.0035.018	Property Management (Jersey Micro Systems)	215.0035.017
Micro Information Systems		Property Management System (Bristol Information Systems)	215.0035.006
ESQ-1 Legal Time and Billing	215.0035.019	PROTAB (CMV Software Specialists)	215.0035.008
Professional Time and Billing (PROMOT)	215.0035.019	Publiphile (WPL Associates)	215.0035.031
THE MAGIC QUILL	215.0035.019	Purveyor (Micro-Crop)	215.0035.021
THE SCHEDULER	215.0035.020		
Micro-Crop		R&B Client Programmed Accounting (R&B Computer Systems)	215.0035.024
Crop Management	215.0035.020	R&B Computer Systems	
Farm and Grower Commodity Sales and Billing	215.0035.020	R&B Client Programmed Accounting	215.0035.024
Farm Equipment Dealer	215.0035.020	R&B Medical/ Dental Billing	215.0035.024
Farms Supplies Management	215.0035.021	R&B Medical/ Dental Billing (R&B Computer Systems)	215.0035.024
Feedlot System	215.0035.021	Radiology Support Network (Trinity Computing Systems)	215.0035.030
Fertilizer Dealer	215.0035.021	RAISE (Results Assured in Solicitation Efforts) (Another Direction)	215.0035.003
Purveyor	215.0035.021	Real Estate Analysis Package (REAP) (Execuware)	215.0035.013
MicroDent (Software Hows)	215.0035.025	Real Estate Analyzer (Howard Software Services)	215.0035.015
MicroMed (Software Hows)	215.0035.026	Rental Inventory Management System (RIMS) (Single Source Solution)	215.0035.025
Midwest Computer Center		Rental Property Management (Feith Systems & Software)	215.0035.014
Time Recording and Management System (TRAMS)	215.0035.022		
MMS CARGODOC (Marine Management Systems)	215.0035.018		
Municipal System (AF Software Services)	215.0035.001		
OCC Client Write-up (Occupational Computing Company (OCC))	215.0035.022		
Occupational Computing Company (OCC)			
OCC Client Write-up	215.0035.022		
Ohio Data Base			
Country Club Accounting	215.0035.022		
OR-D Systems			
Dental Management System	215.0035.022		
Legal Management System	215.0035.023		
Medical Management System	215.0035.023		
Orthodontic (CYMA)	215.0035.011		

Description	Report Number	Description	Report Number
Retail Pharmacy System (Designers & Builders of Information Systems (DBIS))	215.0035.012	Time and Billing System (Client Accounting Systems)	215.0035.007
S-Trac (Trac Line Software)	215.0035.029	Time Recording and Management System (TRAMS) (Midwest Computer Center)	215.0035.022
SBCC & ELCO Systems		TKR III (EF Haskell & Associates)	215.0035.015
Professional Job Accounting and Control System (PJACS)	215.0035.024	TMS/ MSC	
SHUBOX Agricultural Financial System (Agricultural Management Systems)	215.0035.002	Pro-Claim	215.0035.029
Single Source Solution		Trac Line Software	
Financial Package for Service Stations (FPSS)	215.0035.024	S-Trac	215.0035.029
Rental Inventory Management System (RIMS)	215.0035.025	Trinity Computing Systems	
STUDENT RECORD SYSTEM	215.0035.025	Cath Lab Support System	215.0035.029
Small Business Systems Group		CCU Support System	215.0035.029
Telset	215.0035.025	Echocardiography Support System	215.0035.030
Software Hows		Pacemaker Follow-up System	215.0035.030
MicroDent	215.0035.025	Radiology Support Network	215.0035.030
MicroMed	215.0035.026	Ultra Professional Time Billing System (Professional Software Innovations)	215.0035.023
Software Products International		Unique Information Systems	
MedAccount	215.0035.026	HOTEL-2000	215.0035.030
SPECTRA/SOFT		UTILIBILL (EF Haskell & Associates)	215.0035.015
Comprehensive Medical Management of the Apple (COMMA)	215.0035.026	Vehicle Reservation System (Designers & Builders of Information Systems (DBIS))	215.0035.012
Starsoft		Video Software Management System (Information Network Systems)	215.0035.016
CPApartner	215.0035.027	VIDEO/ TRAK (Innovative Software Associates)	215.0035.016
PROpartner	215.0035.027	VisiCorp	
STUDENT RECORD SYSTEM (Single Source Solution)	215.0035.025	VisiDex	215.0035.031
Survey Construction Administration and Tabulation (SCAT) (Thoman Software (TSC))	215.0035.028	VisiDex (VisiCorp)	215.0035.031
System Integration Associates		WPL Associates	
Client Accounting/ Management System	215.0035.027	Publiphile	215.0035.031
Dental System	215.0035.027		
Systems Plus			
Medical Manager	215.0035.028		
TCS Software			
Client Ledger System	215.0035.028		
Telset (Small Business Systems Group)	215.0035.025		
The Grain Accounting Management System (Computone Systems)	215.0035.009		
The LFWF Group			
The Work Management System	215.0035.018		
THE MAGIC QUILL (Micro Information Systems)	215.0035.019		
The Sales Edge (Human Edge Software)	215.0035.016		
THE SCHEDULER (Micro Information Systems)	215.0035.020		
The Work Management System (The LFWF Group)	215.0035.018		
Thoman Software (TSC)			
Survey Construction Administration and Tabulation (SCAT)	215.0035.028		

PROFESSIONAL SERVICES

Compatibility Matrix

215.0025.001

Vendor/Package	Compatible Operating Systems														Others
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	
Accountants Microsystems Inc (AMI) DATAWRITE Client Write-up System			•												
A.F. Software Services Municipal System			•		•			•		•					
AgData AgData General Ledger AgData Payroll			•												
Agricultural Management Systems SHUBOX Agricultural Financial System			•												
Analyt'c Associates planEASE Economic Analysis System			•												
Andent Appointments	•														
Another Direction RAISE (Results Assured in Solicitation Efforts)			•				•								
Appel & Kreiss Software Cash Management System Employee Opinion Survey	•												•		
Arlington Software + Systems Personal Computer Automated Telemarketing (PCAT)							•								
Automated Language Processing Systems Automated Language Processing Systems (ALPS)															ALPS Micro
Aviation Analysis Aircraft Department Management System (ADMS)													•		
A-Systems CONTRACTOR III			•												
BASIS MEDIC80			•					•							
Bear Computers Attorney's Reminder Calendar Attorney's Time and Billing			•												
Bristol Information Systems Professional Time Accounting Property Management System							•			•					
Business Management Systems Medical Care Office System (MEDCOS)			•					•							TurboDOS, Mmmost

Vendor/Package	Compatible Operating Systems														Others
	Apple DOS/SOS Concurrent CP/M-86 CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	Unix	Xenix	
CADO Systems Advertising Agency Control System Fast Food Management System Property Management															CADO OS CADO OS CADO OS
Candela Electronics CAN-PRINT					•										
Client Accounting Systems Practitioner's Software Package Time and Billing System					• • •										
CMA Micro Computer Client Medical Billing System	•														
CMV Software Specialists CMV General Business System PROTAB															BTOS BTOS
Compugraphic Personal Composition System															Apple Lisa
Compupeg Health Care Accounting Package		•			•	•									
Compusol Dental Lab IV		•			•	•				•					
Computer Consulting Services Professional Timekeeping System	•														
Computer Task Group HERCULES	•				•										
Computone Systems The Grain Accounting Management System															CP/M 8/16,CTOS
CYMA Chiropractic Construction Dental Medical Orthodontic		• • • • •	• • • • •	• • • • •	• • • • •	• • • • •	• • • • •								TurboDOS TurboDOS TurboDOS TurboDOS TurboDOS
Designers and Builders of Information Systems (DBIS) Grants Accounting System Retail Pharmacy System Vehicle Reservation System		• • •													TurboDOS TurboDOS TurboDOS
Digital Marketing Datebook II Field Companion		• •	•												

Vendor/Package	Compatible Operating Systems															Others
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	Unix	
Direct Aid LawSearch							•									
Enterprise Computer Systems BMS (Builders Management System)							•									
Execuware Real Estate Analysis Package (REAP)							•									
Farmland Computer Systems Crop Management Package Dairy Herd Management Package	• •															
Feith Systems and Software Rental Property Management											•					
E.F. Haskell & Associates AUDIT Job Cost (CropCost) Programmed Assignment of Client Engagement (PACE) TKR III UTILIBILL			• • • • •							• • • • •						
Howard Software Services Real Estate Analyzer	•						•									
Human Edge Software The Sales Edge							•									
INCOM Systems CAM-II							•									
Information Network Systems Video Software Management System			•					•								
Innovative Software Associates VIDEO/TRAK													•			
International Micro Systems (IMS) Medical Office Management System			•				•	•	•	•						
JEB Systems Market Management System (MMS)			•		•		•	•		•					•	TurboDOS, Mmmost
Jersey Micro Systems Property Management			•													
The LFWF Group The Work Management System			•		•		•			•						•
Marine Management Systems MMS CARGODOC							•									

Vendor/Package	Compatible Operating Systems														Others	
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System		Unix
Micro Business Systems Client Write-up System			•		•											
Micro Data Business Forms & Systems Membership Billing			•													
Micro Information Systems ESQ-1 Legal Time and Billing Professional Time and Billing (PROMOT) THE MAGIC QUILL THE SCHEDULER			• • • •						• • • •							
MICRO-CROP Crop Management Farm and Grower Commodity Sales and Billing Farm Equipment Dealer Farms Supplies Management Feedlot System Fertilizer Dealer Purveyor			• • • • • • • •	• • • • • • • •			• • • • • • • •					• • • • • • • •		• • • • • • • •		TurboDOS TurboDOS TurboDOS TurboDOS TurboDOS TurboDOS TurboDOS TurboDOS
Midwest Computer Center Time Recording and Management System (TRAMS)			•													
Occupational Computing Co (OCC) OCC Client Write-up							•						•			
Ohio Data Base Country Club Accounting																AMOS
OR-D Systems Dental Management System Legal Management System Medical Management System	• • •						• • •									Apple Lisa Apple Lisa Apple Lisa
Professional Computer Services Advanced Legal Software (ALS)			•		•		•	•	•	•						
Professional Software Innovations Ultra Professional Time Billing System			•													
R&B Computer Systems R&B Client Programmed Accounting R&B Medical/Dental Billing			• •		•				•							
SBCC and ELCO Systems Professional Job Accounting and Control System (PJACS)	•															

Vendor/Package	Compatible Operating Systems														Others		
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System		Unix	Xenix
Single Source Solution Financial Package for Service Stations (FPSS) Rental Inventory Management System (RIMS) STUDENT RECORD SYSTEM			•										• •	•			
Small Business Systems Group Telset													•				
Software Hows MicroDent MicroMed			• •						•								TurboDOS, Mmmost
Software Products International MedAccount														•			
SPECTRA/SOFT Comprehensive Medical Management of the Apple (COMMA)	•																
Starsoft CPApartner PROpartner	• •																
System Integration Associates Client Accounting/Management System Dental System																	STA-3500 STA-3500
Systems Plus Medical Manager			•		•			•	•	•							
TCS Software Client Ledger System			•							•							
Thoman Software Corp (TSC) Survey Construction Administration and Tabulation (SCAT)			•		•												
TMS/MSC Pro-Claim	•																
Trac Line Software S-Trac											•						
Trinity Computing Systems Cath Lab Support System CCU Support Systems Echocardiography Support System Pacemaker Followup System Radiology Support Network	• •						• • • •										
Unique Information Systems HOTEL-2000			•					•									
VisiCorp VisiDex	•																
WPL Associates Publiphile			•				•										

PROFESSIONAL SERVICES

Features Matrix

215.0030.001

Vendor/Package	System Capabilities														Application
	Accounts Receivable	Appointments	Cash Management	Client Information	Fixed Asset Management	General Accounting	General Analysis	Inventory	Job/Product Costing	Lease Analysis	Sales and Billing	Statistics	Time Accounting	Third-Party Billing	
Accountants Microsystems Inc (AMI) DATAWRITE Client Write-up System	•			•		•									Professional
A.F. Software Services Municipal System	•					•					•				Municipal
AgData AgData General Ledger AgData Payroll			•			• •							•		Agricultural Agricultural
Agricultural Management Systems SHUBOX Agricultural Financial System					•	•									Agricultural
Analytic Associates planEASE Economic Analysis System			•		•		•			•					Real estate
Andent Appointments		•													Professional
Another Direction RAISE (Results Assured in Solicitation Efforts)	•			•							•		•		Membership
Appel & Kreiss Software Cash Management System Employee Opinion Survey			•		•	•	•					•			Professional Personnel management
Arlington Software + Systems Personal Computer Automated Telemarketing (PCAT)				•							•				Marketing
Automated Language Processing Systems Automated Language Processing Systems (ALPS)							•								Translation
Aviation Analysis Aircraft Department Management System (ADMS)		•								•	•		•		Aviation
A-Systems CONTRACTOR III	•					•				•			•		Construction
BASIS MEDIC80				•							•			•	Medical
Bear Computers Attorney's Reminder Calendar Attorney's Time and Billing	•	•									•		•		Legal Legal
Bristol Information Systems Professional Time Accounting Property Management System	• •		•	•	•					•	•		•		Professional Real estate
Business Management Systems Medical Care Office System (MEDCOS)	•	•		•							•			•	Medical



Vendor/Package	System Capabilities												Application
	Accounts Receivable	Appointments	Cash Management	Client Information	Fixed Asset Management	General Accounting	General Analysis	Inventory	Job/Product Costing	Lease Analysis	Sales and Billing	Statistics	
CADO Systems Advertising Agency Control System Fast Food Management System Property Management	•					•	•			•		•	Advertising Food service Real estate
Candela Electronics CAN-PRINT				•									Service
Client Accounting Systems Practitioner's Software Package Time and Billing System	•			•	•	•					•	•	Public accounting Public accounting
CMA Micro Computer Client Medical Billing System				•	•						•	•	Medical
CMV Software Specialists CMV General Business System PROTAB	•					•					•	•	Professional Legal or public accounting
Compugraphic Personal Composition System													Typesetting
Compupeg Health Care Accounting Package				•	•						•	•	Medical
Compusol Dental Lab IV					•					•	•		Dental
Computer Consulting Services Professional Timekeeping System	•										•	•	Professional
Computer Task Group HERCULES					•	•				•			Fleet management
Computone Systems The Grain Accounting Management System	•					•	•	•					Agricultural
CYMA Chiropractic Construction Dental Medical Orthodontic	• • • • •		•	• • • •	• • • •					• • • •		•	Medical Construction Dental Medical Dental
Designers and Builders of Information Systems (DBIS) Grants Accounting System Retail Pharmacy System Vehicle Reservation System		•		•	•		•			•	•	•	Nonprofit Pharmacy Fleet management
Digital Marketing Datebook II Field Companion		•		•							•	•	Professional Professional

Vendor/Package	System Capabilities													Application	
	Accounts Receivable	Appointments	Cash Management	Client Information	Fixed Asset Management	General Accounting	General Analysis	Inventory	Job/Product Costing	Lease Analysis	Sales and Billing	Statistics	Time Accounting		Third-Party Billing
Direct Aid LawSearch							•								Legal
Enterprise Computer Systems BMS (Builders Management System)										•					Construction
Execuware Real Estate Analysis Package (REAP)				•	•		•			•					Real estate
Farmland Computer Systems Crop Management Package Dairy Herd Management Package			• •		• •					• •					Agricultural Agricultural
Feith Systems and Software Rental Property Management	•			•	•	•									Real estate
E.F. Haskett & Associates AUDIT Job Cost (CropCost) Programmed Assignment of Client Engagement (PACE) TKR III UTILIBILL			•				•			• •			•		Public accounting Construction, agriculture Professional Professional Municipal
Howard Software Services Real Estate Analyzer				•		•				•					Real estate
Human Edge Software The Sales Edge					•										Sales or personnel management
INCOM Systems CAM-II	•					•				•			•		Construction
Information Network Systems Video Software Management System					•	•		•			•				Retail rental
Innovative Software Associates VIDEO/TRAK					•	•		•			•				Retail rental
International Micro Systems (IMS) Medical Office Management System	•	•		•		•					•			•	Medical
JEB Systems Market Management System (MMS)					•										Marketing
Jersey Micro Systems Property Management	•			•	•	•					•				Real estate
The LFWF Group The Work Management System		•			•					•			•		Municipal
Marine Management Systems MMS CARGODOC	•										•				Freight



Vendor/Package	System Capabilities													Application	
	Accounts Receivable	Appointments	Cash Management	Client Information	Fixed Asset Management	General Accounting	General Analysis	Inventory	Job/Product Costing	Lease Analysis	Sales and Billing	Statistics	Time Accounting		Third-Party Billing
Micro Business Systems Client Write-up System						•									Public accounting
Micro Data Business Forms & Systems Membership Billing	•			•		•					•				Membership
Micro Information Systems ESQ-1 Legal Time and Billing Professional Time and Billing (PROMOT) THE MAGIC QUILL THE SCHEDULER	• •			• •		• •					• •		• •		Legal Professional Professional Professional
MICRO-CROP Crop Management Farm and Grower Commodity Sales and Billing Farm Equipment Dealer Farms Supplies Management Feedlot System Fertilizer Dealer Purveyor	• • • • •			• • •		• • • • •		• • • • •		• • • • •					Agriculture Agriculture Agriculture Agriculture Agriculture Agriculture Agriculture
Midwest Computer Center Time Recording and Management System (TRAMS)		•		•		•				•	•		•		Professional
Occupational Computing Co (OCC) OCC Client Write-up						•									Public accounting
Ohio Data Base Country Club Accounting				•		•					•				Membership
OR-D Systems Dental Management System Legal Management System Medical Management System	• • •		• • •	• • •							• • •		• • •		Dental Legal Medical
Professional Computer Services Advanced Legal Software (ALS)		•		•							•		•		Legal
Professional Software Innovations Ultra Professional Time Billing System							•				•		•		Professional
R&B Computer Systems R&B Client Programmed Accounting R&B Medical/Dental Billing	•					• •					•			•	Professional Medical, dental
SBCC and ELCO Systems Professional Job Accounting and Control System (PJACS)													•		Professional

Vendor/Package	System Capabilities														Application
	Accounts Receivable	Appointments	Cash Management	Client Information	Fixed Asset Management	General Accounting	General Analysis	Inventory	Job/Product Costing	Lease Analysis	Sales and Billing	Statistics	Time Accounting	Third-Party Billing	
Single Source Solution Financial Package for Service Stations (FPSS) Rental Inventory Management System (RIMS) STUDENT RECORD SYSTEM			•	•		•	•	•			•	•			Retail Retail rental Education
Small Business Systems Group Telset															Typesetting
Software Hows MicroDent MicroMed		• •	• •	• •	• •						• •		• •		Dental Medical
Software Products International MedAccount				•							•			•	Medical
SPECTRA/SOFT Comprehensive Medical Management of the Apple (COMMA)	•			•							•			•	Medical
Starsoft CPApartner PROpartner		•		• •	• •	• •					• •		• •		Public accounting Professional
System Integration Associates Client Accounting/Management System Dental System		•		• •	• •	• •					•		•	•	Legal Dental
Systems Plus Medical Manager	•	•		•	•						•			•	Medical
TCS Software Client Ledger System			•	•	•										Professional
Thoman Software Corp (TSC) Survey Construction Administration and Tabulation (SCAT)							•					•			Marketing
TMS/MSC Pro-Claim											•			•	Medical
Trac Line Software S-Trac			•		•		•		•	•					Service
Trinity Computing Systems Cath Lab Support System CCU Support System Echocardiography Support System Pacemaker Followup System Radiology Support Network				•		• • •					• • •	• • •	• • •		Medical Medical Medical Medical Medical
Unique Information Systems HOTEL-2000		•		•							•				Hotel
VisiCorp VisiDex		•		•											Professional
WPL Associates Publiphile	•			•							•				Publishing



PROFESSIONAL SERVICES

Product Summaries

ACCOUNTANTS MICROSYSTEMS INC (AMI)

1404 140th Pl NE
Bellevue WA 98007

(206) 643-2050

► DATAWRITE Client Write-up System

A client-information processing system for CP/M-based microcomputers

Price \$3,495 purchase

Environment Computers: any CP/M-based microcomputer. Main storage: not specified. Source language: not specified.

Capabilities Report writer. Handles multiple clients. Produces standard or user-defined chart of accounts. Analyzes individual entity or consolidated totals. Creates up to eight standard journals, each of which can be modified to suit a client's needs.

Description DATAWRITE allows the user to set up client information—with up to 99 breakdowns—according to his or her needs. Program output includes an account balance inquiry report; a user-defined or standard chart of accounts that can be copied to any client; a listing of automatic allocations and recurring entries; and annual, period, or variable client budgets.

Compatibility Matrix: 215.0025.001
Features Matrix: 215.0030.001

A.F. SOFTWARE SERVICES INC

1106 Greenfield Circle
Geneva IL 60134

(312) 232-0790

► Municipal System

A modular financial accounting system for local governments

Price Purchase: \$3,000 per module, \$7,500 per system (with source); \$2,000 per module, \$5,000 per system (without source)

Environment Computers: microcomputers running under CP/M, MP/M II, CP/M-86, or MS-DOS. Main storage: 48K bytes per user partition. Source language: RM/COBOL.

Capabilities Complete fund accounting with encumbrance, accounts payable. Payroll is keyed to multidepartment employees with different pay rates, special switches on FICA MRF, and the like. Utility billing for water, sewer, and two miscellaneous charges. System tables changeable by use so that reprogramming is not required.

Description The Municipal System consists of three application modules:

- Fund Accounting is both a full general ledger system for municipalities and an accounts payable system.
- Municipal Payroll is a specialty payroll fitting municipal needs. It is set up for three basic types of employees: hourly workers, salaried workers without overtime, and salaried workers with overtime.
- Utility Billing handles utility billing for water, sewer, and two miscellaneous cycling charges, such as garbage and brush pickup.

Compatibility Matrix: 215.0025.001
Features Matrix: 215.0030.001

AGDATA

891 Hazel St
Gridley CA 95948

(916) 846-6203

► AgData General Ledger

A general ledger package for farm management

Price \$1,000 purchase

Environment Computers: any microcomputer running under CP/M. Main storage: 64K bytes. Source language: not specified.

Capabilities Balance sheet and profit and loss statements. Cash forecasting. Financial analysis. Vendor activity analysis. Writes checks and generates a check register.

Description AgData General Ledger supports user-specified charts of accounts, produces computer-written checks, and records handwritten checks. All transactions are automatically posted to the proper accounts.

Compatibility Matrix: 215.0025.001
Features Matrix: 215.0030.001

AGDATA

891 Hazel St
Gridley CA 95948

(916) 846-6203

► AgData Payroll

An agricultural payroll package

Price \$1,000 purchase

Environment Computers: any microcomputer running under CP/M. Main storage: 64K bytes. Source language: not specified.

Capabilities Prints paychecks and W2 Forms. Detailed and summarized earnings reports. Union reports. Workers' Compensation Insurance reports.

Description AgData Payroll calculates and prepares employee payroll. Payment columns for gross pay, Federal Withholding Tax, FICA, state and local taxes, and pay advances are standard. Special deductions, such as union dues or medical insurance, can be accommodated by the program. Farm piecework and overtime wages can be included in the same paycheck.

Compatibility Matrix: 215.0025.001

Features Matrix: 215.0030.001

AGRICULTURAL MANAGEMENT SYSTEMS

2770 Vista Ave
Boise ID 83705

(208) 345-4383

► SHUBOX Agricultural Financial System

A double-entry accounting system for farms

Price Vendor declined to provide

Environment Computers: any running under CP/M. Main storage: 64K bytes. Source language: BASIC-80.

Capabilities Prints and reconciles checks. Posts from check register to general ledger. Provides running total for each budget item, supplier, and employee. Allows separate enterprise accounts for such cash expenses as leased land, seed, and machinery. Complete summary of projected depreciation and tax liability. Budgeting and forecasting.

Description SHUBOX Agricultural Financial System consists of modules for general ledger, check drafting, and budget forecasting. Accounts are updated continuously, providing financial information on demand.

Compatibility Matrix: 215.0025.001

Features Matrix: 215.0030.001

ANALYTIC ASSOCIATES

4817 Browndeer La
Rolling Hills Estates CA 90274

(213) 541-0418

► planEASe Economic Analysis System

A financial analysis package for income-producing real estate

Price \$595 purchase

Environment Computers: any running under CP/M. Main storage: 56K bytes. Source language: CBASIC-80.

Capabilities User-defined holding period (e.g., 1.2 or 99.4). Calendaring. Calculates internal rate of return, present value, and financial management rate of return. Provides sensitivity analysis. Performs Monte Carlo risk analysis, with a printed histogram of results. Prints graphs.

Description planEASe performs financial analyses and cash flow projections for income-producing properties, such as apartments, offices, and shopping centers. The number of leases, expenses, loans, or depreciation schedules for a property is unlimited.

The following models are available for planEASe:

- **Model modification**—Translates any or all English-language output to another language (e.g., German or French)
- **Real estate partnership**—Expands the system to handle financial projections for partnerships
- **Real estate offer evaluator**—Analyzes offers for a property.

Compatibility Matrix: 215.0025.001

Features Matrix: 215.0030.001

ANDENT

1000 North Ave
Waukegan IL 60085

(312) 223-5077

► Appointments

An appointment-book system

Price \$75 purchase

Environment Computers: Apple II. Main storage: 48K bytes. Source language: Applesoft.

Capabilities Formats daily schedules. Prompt driven. Single- or dual-column presentation of names. Space for daily schedule comments.

Description Appointments provides daily scheduling of appointments for all types of office personnel. Consisting of two programs, Book Create and Appointments, the system allows the user to format a day's appointments according to starting and closing times and length of the standard appointment increment.

Compatibility Matrix: 215.0025.001

Features Matrix: 215.0030.001



ANOTHER DIRECTION

19 Rolling Rd
East Brunswick NJ 08816

(201) 238-1333

► RAISE (Results Assured in Solicitation Efforts)

Fund-development management information system

Price \$5,500 (initial license)

Environment Computers: any running under CP/M; IBM Personal Computer. Main storage: 64K bytes (CP/M); 128K bytes (IBM Personal Computer). Source language: COBOL.

Capabilities Keeps an updated file of prospects and donors. Generates form letters and address labels. Aids goal setting and the evaluation of promotional and fund-raising techniques. Provides a volunteer-hours accounting subsystem. Reports aged trial balance for delinquent pledges. Generates gift receipts acknowledgements.

Description RAISE is available for fund-raising operations as a turnkey system or software package. Special services offered at additional cost include supervision of the data file conversion and adaption of RAISE to specific user needs.

Compatibility Matrix: 215.0025.001

Features Matrix: 215.0030.001

APPEL & KREISS SOFTWARE INC

78 Alwat St
Woodbridge NJ 07095

(201) 634-7137

► Cash Management System

An interactive cash management and reporting system

Price Up to \$10,000 purchase

Environment Computers: Apple III (minimum of two 5-1/4-inch drives). Main storage: 128K bytes. Source language: Apple Business BASIC.

Capabilities Control files permit processing of multiple divisions/companies and banks. Develops daily cash requirements according to division needs, check clearance, loan maturation, and balance-compensation requirements. Reports detail division/company transactions and positions. Produces analysis reports at bank level, including details on loans and year-to-date volume.

Description The Cash Management System accommodates both internal and external financial reporting requirements. To meet special user requirements, it can be modified to operate on other computer systems in addition to the Apple III.

Compatibility Matrix: 215.0025.001

Features Matrix: 215.0030.001

APPEL & KREISS SOFTWARE INC

78 Alwat St
Woodbridge NJ 07095

(201) 634-7137

► Employee Opinion Survey

A personnel survey and reporting system

Price Up to \$7,000 purchase

Environment Computers: Tandy TRS-80 Models II, 16 (minimum two disk drives). Main storage: 64K bytes. Source language: BASIC.

Capabilities Maintains a master list of survey questions within attitude categories. User can add, delete, or change questions and categories to establish a customized survey. Once questions are established, system prints survey forms. Survey responses and employee demographic data are entered into the computer. Attitude groupings reported on a percentage basis.

Description The Employee Opinion Survey processes survey data (responses) to produce comprehensive reports and summaries. The reports highlight employee problem areas, allowing management to make adjustments to improve relationships. The system has been used in companies with as many as 2,000 and as few as 25 employees.

Compatibility Matrix: 215.0025.001

Features Matrix: 215.0030.001

ARLINGTON SOFTWARE + SYSTEMS

97 Bartlett Ave
Arlington MA 02174

(617) 641-0290

► Personal Computer Automated Telemarketing (PCAT)

An automated telemarketing package for small businesses

Price Vendor declined to provide

Environment Computers: IBM Personal Computer. Main storage: 128K bytes. Source language: not specified.

Capabilities Stores customer or client information. Schedules outgoing calls by date and time. Reschedules busy and unanswered calls. Automatically dials local, long-distance, and network calls. Built-in word processor for order confirmation, letters, or memos. Displays prompter scripts for sales or service.

Description PCAT manages and schedules telephone calls for such applications as telephone sales, lead qualifications, customer service, surveys, receivables collection, inquiries, and fund raising. PCAT can be run separately or with other systems.

In addition to automatically scheduling and dialing calls, PCAT uses function key prompts and Help screens to guide users through the program.

Compatibility Matrix: 215.0025.001

Features Matrix: 215.0030.001

AUTOMATED LANGUAGE PROCESSING SYSTEMS

190 W 800 N
Provo UT 84601

(801) 375-0090

► Automated Language Processing Systems (ALPS)

A systems integrator and software developer for natural-language processing

Price \$500–\$3,000/month (includes hardware)

Environment Computers: ALPS microcomputer. Main storage: not specified. Source language: not specified.

Capabilities Provides more than 100 roman alphabet languages. Displays alternative translations of words and phrases on the screen. Answers questions about sentence structure. Edits translations. Processes inflections, conjugations, agreement, and word order, based on response translators. Builds a dictionary and refers to it. Multiple-window screens. Networking and telecommunications capabilities. Access to term banks and terminology exchange networks. Letter-quality multilingual printer.

Description ALPS includes one or more workstations along with the software. It is designed for translation bureaus and in-house translation departments. A typical initial configuration has two to four workstations supported by a shared disk unit and letter-quality multilingual printer. Additional workstations can be clustered. The system communicates with mainframes and typesetting equipment.

Compatibility Matrix: 215.0025.001

Features Matrix: 215.0030.001

AVIATION ANALYSIS

333 Central Ave
Hinsdale IL 60521

(312) 986-1059

► Aircraft Department Management System (ADMS)

An aviation management system for pilots, dispatchers, and maintenance personnel

Price \$750–\$2,415 purchase

Environment Computers: Tandy TRS-80 Model III. Main storage: 48K bytes. Source language: not specified.

Capabilities Airport directory. Trip planning. Pilot flight logs. Billing. Aircraft scheduling. Reports: manpower usage, aircraft usage, aircraft status, aircraft maintenance due, aircraft history.

Description ADMS handles trip planning and scheduling and keeps records on all flight department activities. The package consists of five modules, which can be purchased separately according to a company's needs.

Compatibility Matrix: 215.0025.001
Features Matrix: 215.0030.001

A-SYSTEMS

1610 S Main St
Bountiful UT 84010

(801) 298-0052

► CONTRACTOR III

A construction accounting system

Price \$6,000–\$14,000 purchase

Environment Computers: any running under CP/M. Main storage: 64K bytes. Source language: MBASIC.

Capabilities Critical path system. Checks for errors in such entries as job number, cost code, and general ledger account number.

Description CONTRACTOR III includes the following modules:

- Job costing—Establishes a dictionary of cost codes for projects. Contractors set up a budget for a specific job by selecting codes from this dictionary and then assigning dollar amounts and labor hours or material units (e.g., square feet or cubic yards) to the coded tasks.
- General ledger—Provides user-defined master file account numbers and generates financial reports, such as profit and loss, balance sheet, detail and summary, trial balance, and journal listings.
- Payroll—Provides a multistate, multiunion, variable wage rate payroll as well as reports required by the government.
- Accounts payable—Handles payments to material vendors and provides a detailed subcontract payment management and control system.
- Accounts receivable—Produces receipts proof listings, aged receivables, receivables trial balance, customer lists, invoices and statements, and invoice/progress billing proof listings.

CONTRACTOR III includes an instructional videotape or up to four days of training.

Compatibility Matrix: 215.0025.001
Features Matrix: 215.0030.001

BASIS INC

670 International Pkwy
Suite 100
Richardson TX 75081

(214) 699-8980

► **MEDIC80**

Medical accounting and billing package for CP/M and MP/M

Price \$4,500–\$6,500 purchase

Environment Computers: any running under CP/M or MP/M. Main storage: 64K bytes. Source language: Assembler, CBASIC.

Capabilities Keys patient records on both name and account number. File access for reviewing and updating. Normal and reverse video emulates protected fields.

Description MEDIC80 is a menu-driven program that provides interactive prompts for operator response. A user guide is provided with numerous examples. Previous CRT experience is not necessary for MEDIC80 users.

Compatibility Matrix: 215.0025.001
Features Matrix: 215.0030.001

BEAR COMPUTERS INC

102 N Center St
Bloomington IL 61701

(309) 828-6031

► **Attorney's Reminder Calendar**

Calendar program to supplement Attorney's Time and Billing package from same vendor

Price \$250 purchase

Environment Computers: any running under CP/M. Main storage: 64K bytes. Source language: BASIC.

Capabilities Stores appointments, court dates, and statute dates for prompting at the appropriate time. Prints weekly or monthly calendar for each attorney. Prevents time conflicts.

Description Attorney's Reminder Calendar provides an automated "index-card" calendar system for a small attorney's office. The program interfaces with Attorney's Time and Billing or operates separately.

Compatibility Matrix: 215.0025.001
Features Matrix: 215.0030.001

BEAR COMPUTERS INC

102 N Center St
Bloomington IL 61701

(309) 828-6031

► **Attorney's Time and Billing**

Time, billing, and accounts receivable for the small attorney's office

Price \$2,495 purchase

Environment Computers: any running under CP/M. Main storage: 64K bytes. Source language: BASIC.

Capabilities Maintains file of attorneys and their rates, client file, case file, and billing code file. Work-in-progress can be billed by deferral or according to user-specified method. Cost advances are handled separately, in keeping with accepted income and expense accounting packages.

Description Attorney's Time and Billing provides aged work-in-progress, aged accounts receivable, billing analysis, and attorney productivity reports. This program supports the accompanying package, Attorney's Reminder Calendar.

Compatibility Matrix: 215.0025.001
Features Matrix: 215.0030.001

BRISTOL INFORMATION SYSTEMS

84 N Main St
Fall River MA 02720

(617) 679-1051

► **Professional Time Accounting**

A productivity and profitability system

Price Purchase: \$1,200 (with accounts receivable); \$800 (without accounts receivable)

Environment Computers: IBM Personal Computer, other microcomputers running under MS-DOS. Main storage: 256K bytes. Source language: Databus.

Capabilities Provides complete productivity/profitability analysis by employee, project, subproject, job, and client for firms supplying professional services. Maintains complete project, employee, and customer data, including credit status, aged balances, and purchases for the period, year to date, and last year. User-configurable job rate code allows up to 10 variable employee-related rates, plus fixed-fee charges to be applied to each job type. Concurrently handles thousands of projects. Provides more than 15 reports, including employee billing analysis, work in progress, and a time report listing.

Description The Professional Time Accounting system provides complete productivity/profitability analysis for businesses providing professional services, including accounting, consulting, and legal firms.

Compatibility Matrix: 215.0025.001
Features Matrix: 215.0030.001

BRISTOL INFORMATION SYSTEMS

84 N Main St
Fall River MA 02720

(617) 679-1051

► Property Management System

A real-property management reporting system

Price Purchase: \$1,200 (with accounts receivable); \$800 (without accounts receivable)

Environment Computers: IBM Personal Computer, other microcomputers running under MS-DOS. Main storage: 256K bytes. Source language: Databus.

Capabilities Contains data about each unit, apartment, or suite, as well as lease occupants, billing cost, and maintenance. Nineteen additional fields provided on master file to store special information unique to each company.

Description The Property Management System gives the user control over all aspects of real estate projects. Many reports are provided, including a maintenance-to-do list, a rent/cash receipts register, late-rent notices with optional late charges, income and expense reports, and cash flow reports.

Compatibility Matrix: 215.0025.001
Features Matrix: 215.0030.001

BUSINESS MANAGEMENT SYSTEMS

Grand View Rd
Sugar Hill NH 03585

(603) 823-5578

► Medical Care Office System (MEDCOS)

A business management package for medical offices

Price Vendor declined to provide

Environment Computers: any running under CP/M, MP/M, TurboDOS, or MmmOST. Main storage: not specified. Source language: CBASIC-2.

Capabilities Patient recall notices. Prints patient bills on demand. Completes insurance forms. Family billing. Displays information. Prints reports.

Description MEDCOS tracks the medical conditions of patients and the treatments prescribed. It manages medical accounts receivable, insurance form preparation, and appointment scheduling for medical practices with up to 99 doctors. The open-item accounts receivable system handles the files of up to 32,000 patients, depending on available disk storage.

Compatibility Matrix: 215.0025.001
Features Matrix: 215.0030.001

CADO SYSTEMS

2771 Toledo St
Torrance CA 90503

(213) 323-8170

► Advertising Agency Control System

A business system for advertising agencies

Price Vendor declined to provide

Environment Computers: all CADO computers. Main storage: 48K-512K bytes. Source language: CADOL II.

Capabilities Provides media and production control, accounts receivable, accounts payable, and general ledger. Supports from 4 to 64 users.

Description The system controls advertising campaigns from proposal to completion. It changes, adds, and cancels part or all of a campaign at any stage. More than 100 reports are available for traffic control, management, and administration. The system provides WP and custom report generation through CADO's Wordbase.

Compatibility Matrix: 215.0025.002
Features Matrix: 215.0030.002

CADO SYSTEMS

2771 Toledo St
Torrance CA 90503

(213) 323-8170

► Fast Food Management System

A food management system

Price \$7,500-\$12,500 purchase, depending on number of stores

Environment Computers: all CADO computers. Main storage: 48K-512K bytes. Source language: CADOL II.

Capabilities Tracks ideal versus actual food costs. Projects store volume based on history. Creates employee schedules based on availability and skill level.

Description Fast Food Management System is designed for most fast-food restaurants. The system keeps separate inventory and profitability information for up to 99 stores. The program includes CADO's data and word processing system, which provides birthday club letters and special reports.

Compatibility Matrix: 215.0025.002
Features Matrix: 215.0030.002



CANDELA ELECTRONICS

550 Del Rey Ave
Sunnyvale CA 94088-3461

(408) 738-3800

► CAN-PRINT

A message storage and retrieval system for telephone answering services

Price \$350 purchase

Environment Computers: IBM Personal Computer. Main storage: not specified. Source language: not specified.

Capabilities Standalone. Works with any call distribution system. Maintains privacy by printing messages only on client demand.

Description CAN-PRINT stores and retrieves up to 800 messages of up to 220 characters each. The user inputs messages through the keyboard. To recall messages, the user enters the client number, and all messages are printed for that client. If the user does not know the client number, the system displays a directory listing.

Messages are time-stamped with date, hour, and minute. As they are delivered, the messages are printed out as permanent records and erased from the disk.

The system permits answering bureaus to offer electronic message retrieval by leasing clients low-cost message printers. When an absent client receives a call, the printer indicates that a message has been taken. On returning, the client pushes a call button to get a printout of all unreported calls. Each printer has a unique identification number to ensure that it retrieves only that client's messages.

Compatibility Matrix: 215.0025.002
Features Matrix: 215.0030.002

CLIENT ACCOUNTING SYSTEMS

2331 NW 40th Ave #212
Ft Lauderdale FL 33313

(305) 733-3127

► Practitioner's Software Package

A complete set of financial programs for a public accounting practice

Price \$5,000 purchase (lease/purchase available)

Environment Computers: IBM Personal Computer. Main storage: 64K-128K bytes. Source language: UCSD Pascal.

Capabilities General ledger with financial statements, after-the-fact payroll, depreciation (ACRS), amortization, and letter-writing capabilities.

Description The Practitioner's Software Package is specifically designed for the small public accounting practice. Assuming no prior data processing experience on the part of the user, it is completely interactive and tutorial in nature.

Compatibility Matrix: 215.0025.002
Features Matrix: 215.0030.002

CLIENT ACCOUNTING SYSTEMS

2331 NW 40th Ave #212
Ft Lauderdale FL 33313

(305) 733-3127

► Time and Billing System

A time accounting and billing system for a public accounting practice

Price \$1,000 purchase (lease/purchase available)

Environment Computers: IBM Personal Computer. Main storage: 64K-128K bytes. Source language: UCSD Pascal.

Capabilities Automatically extends time by rate for each task entered. Produces a detailed client billing report for review prior to billing. Generates statements in either detailed or summary format.

Description The Time and Billing System computes and bills time for public accounting firms.

Compatibility Matrix: 215.0025.002
Features Matrix: 215.0030.002

CMA MICRO COMPUTER

55722 Santa Fe Trail
Yucca Valley CA 92284

(619) 365-9718

► Client Medical Billing System

A client medical billing system for accountants and billing services

Price \$1,595 purchase

Environment Computers: Apple IIe with an 80-column text card. Main storage: not specified. Source language: not specified.

Capabilities Handles patient billing. Develops separate data base for each physician's patient data. Reports billing activity. Prepares private patient statements and standard American Medical Association claim forms.

Description Client Medical Billing makes CMA Micro Computer's medical management software available to those outside the medical profession. Using this system, small accounting firms can automate their services to small medical clients and provide effective accounts receivable management. Accountants can develop fee structures for their services based on data base size and transaction volume.

Compatibility Matrix: 215.0025.002
Features Matrix: 215.0030.002

CMV SOFTWARE SPECIALISTS INC

608 N Kowanis
Sioux Falls SD 57104

(605) 338-6645

► CMV General Business System

A fully integrated and modular accounting system

Price \$4,000 purchase

Environment Computers: Burroughs B 20. Main storage: 384K bytes. Source language: COBOL.

Capabilities Full capabilities of a general accounting system, including accounts receivable statements, financial package, and quarterly and annual reporting features.

Description The CMV General Business System is a fully integrated financial system with accounts receivable, accounts payable, general ledger, and payroll applications. Designed with the user in mind, each module is easy to operate and understand yet sophisticated in its interaction and functions.

Compatibility Matrix: 215.0025.002
Features Matrix: 215.0030.002

CMV SOFTWARE SPECIALISTS INC

608 N Kowanis
Sioux Falls SD 57104

(605) 338-6645

► PROTAB

A fully interactive time and billing system

Price \$4,000 purchase

Environment Computers: Burroughs B 20. Main storage: 384K bytes. Source language: BASIC.

Capabilities A fully integrated general accounting package, including general ledger, payroll, accounts payable, and accounts receivable applications. Produces an itemized account balance, income statements, W-2s, account aging, checks, history files, and trial balances.

Description PROTAB is a time and billing system designed for accounting and legal practices. It includes an automatic billing cycle and provides six formats for manual billing. Multiple statement and report formats are available, and balance-forward and/or open-item accounting, complete history files, and multiple distribution codes for cash receipts are standard.

Compatibility Matrix: 215.0025.002
Features Matrix: 215.0030.002

COMPUGRAPHIC

200 Ballardvale St
Wilmington MA 01887

(617) 658-5600

► Personal Composition System

A microcomputer-based typesetting system

Price \$40,000 purchase (includes computer, typesetting machine, and interfaces)

Environment Computers: Apple Lisa. Main storage: not specified. Source language: not specified.

Capabilities Automated typesetting, using any of the 11 built-in Apple Lisa font styles. Direct, keyboard-to-hard-copy typesetting. Produces hard-copy graphics, with circles and diagonals.

Description The Personal Composition System is a bundled hardware and software system that allows novice users to typeset any Apple Lisa application on a Compugraphic 8400 typesetting machine. The Personal Composition System sets text in a variety of styles and allows drawings and graphs produced by LisaDraw and LisaGraph to be automatically set within text. All output from Lisa application programs is automatically translated into the commands required by the typesetting machine.

Compatibility Matrix: 215.0025.002
Features Matrix: 215.0030.002

COMPUPEG

1202 W Ridgeway
Waterloo IA 50701

(319) 233-2816

► Health Care Accounting Package

An accounting package for health care professionals

Price Vendor declined to provide

Environment Computers: IBM Personal Computer, any microcomputer running under CP/M or MP/M. Main storage: 96K bytes. Source language: Microsoft BASIC.

Capabilities Automatically charges fees. Maintains patient account records and billing. Deletes patient records. Ages accounts and edits interest charges. Completes insurance forms. Maintains daily ledgers. Logs receipts. Procedure and diagnostic analysis. Analysis of service by doctor. Compiles general ledger statistical records. Monitors cash disbursement. Generates confidential earnings reports; income analyses (daily, monthly, quarterly, and yearly); trial balances; income statements; and balance sheets.

Description The Health Care Accounting Package provides statements and reports. It handles up to 30,000 patients and 1,000 transaction codes and records diagnoses using an 8-digit code. It retains transactions for one year. The package checks all entries and informs users of errors in posting.

Compatibility Matrix: 215.0025.002
Features Matrix: 215.0030.002



COMPUSOL

N Center Sq A120
5444 Buford Hwy
Doraville GA 30340

(404) 451-1033

► Dental Lab IV

A laboratory processing system

Price Purchase: \$2,995 (single user); \$4,995 (multiuser)

Environment Computers: Tandy TRS-80 Model II; Altos computers; IBM Personal Computer; any running under CP/M. Main storage: 64K bytes. Source language: Microsoft BASIC.

Capabilities Records case production management and sales information. Provides monthly and month-end processing. Performs labor analysis. Production control and job costing. Market analysis and sales prospecting. Optional bar code interface.

Description Dental Lab IV is a laboratory processing system that records case production management and sales information. A sales history can be maintained on a daily basis. The system also provides master file maintenance for adding, changing, or deleting data. Additional system features include accounting, accounts payable, payroll, general ledger, and word processing.

Compatibility Matrix: 215.0025.002
Features Matrix: 215.0030.002

COMPUTER CONSULTING SERVICES

611 Druid Rd East
Clearwater FL 33516

(813) 446-2643

► Professional Timekeeping System

A billing system for professionals who charge on a time basis

Price Purchase: \$595 (diskette), \$995 (disk)

Environment Computers: Apple II, II+, IIe. Main storage: 48K bytes. Source language: Applesoft BASIC.

Capabilities Produces client bills. Generates combined aged accounts receivable, unbilled dollars, and unbilled hours reports. Generates productivity analysis reports.

Description Numerous reports help professionals generate flexible and timely billings. The system improves cash flow and analyzes a firm's activity.

Compatibility Matrix: 215.0025.002
Features Matrix: 215.0030.002

COMPUTER TASK GROUP

800 Delaware Ave
Buffalo NY 14209

(716) 882-8000

► HERCULES

A vehicle-maintenance reporting system

Price \$1,595 purchase

Environment Computers: Apple II, IBM Personal Computer. Main storage: 64K bytes (Apple) 128K bytes (IBM). Source language: Pascal.

Capabilities Provides computerized tracking of fuel- and oil-consumption data, repair orders, tire costing, preventive maintenance scheduling, and vehicle inventory.

Description HERCULES is an online standalone software system that tracks operating costs of powered vehicles, trailers, and mechanical refrigeration units. The system is compatible with the American Trucking Association Vehicle Maintenance Reporting Standard (VMRS). HERCULES is targeted for fleet owners with 10 to 100 vehicles.

Compatibility Matrix: 215.0025.002
Features Matrix: 215.0030.002

COMPUTONE SYSTEMS

One Dunwoody Park
Atlanta GA 30338

(800) 241-8140
(404) 393-3010

► The Grain Accounting Management System

An accounting and inventory system for operators of grain elevators and feed mills

Price Vendor declined to provide

Environment Computers: Digital Equipment micro-computers. Main storage: not specified. Source language: not specified.

Capabilities Automated general ledger, accounts payable, and accounts receivable. Tracks inventory and market price of grain. Prints checks. Reports on commodities.

Description The Grain Accounting Management System combines general accounting and inventory procedures with the ability to track hedges and futures markets.

The system monitors grade factors, such as quality and moisture content, to calculate grain values from scale weights. Payments to farmers can be made by check, warehouse or grain bank receipt, or deferred pricing. Shipments by unit train, single rail car, or truck are also tracked.

Futures market reports include long and short position, broker, option, margin call, and profit and loss.

Compatibility Matrix: 215.0025.002
Features Matrix: 215.0030.002

CYMA CORP2160 E Brown Rd
Mesa AZ 85203

(602) 835-8880

► Chiropractic

A chiropractor support system

Price \$1,695 purchase**Environment** Computers: any running under CP/M, MP/M II, CP/M-86, MP/M-86, PC DOS, MS-DOS, or TurboDOS. Main storage: 48K bytes. Source language: CBASIC.**Capabilities** Single- or multiple-user compatible. Handles up to 4,000 patient records or 10,000 entries per disk. Calculates finance charges. Supports 26 billing codes.**Description** The CYMA Chiropractic system provides patient-record and billing support with single- or multiple-practice capability. The accounting support includes a combination of open item and balance forward or contract accounts receivable with payment book. It provides third-party billing and insured-party information accessed by alphanumeric patient numbers and user-defined procedure codes. In addition, it prints reports detailing variable aging and future due; standard insurance forms; patient list, labels, and/or word processing files; patient statements with optional message area; current-period practice analysis; patient recall; and referring-physician and treatment-procedure analyses.**Compatibility Matrix:** 215.0025.002
Features Matrix: 215.0030.002**CYMA CORP**2160 E Brown Rd
Mesa AZ 85203

(602) 835-8880

► Construction

A construction project analysis system

Price \$2,795 purchase**Environment** Computers: any running under CP/M, MP/M II, PC DOS, MS-DOS, or TurboDOS. Main storage: 48K bytes. Source language: CBASIC.**Capabilities** Supports up to eight account numbers with multilevel security codes. Provides single- or multiple-user support. Payroll and accounts payable distribute labor to appropriate job. Produces comparison-style financial statements, including percentages. Handles up to 10,000 accounts and 11,000 transactions per disk.**Description** The CYMA Construction system is a single- or multiuser job-costing and analysis system designed to keep track of all aspects of a construction project. It provides budgeting by subdivision, job, and job subphase; payroll and accounts payable distributed to appropriate jobs; graphing of monthly activity by jobs and accounts; complete job audit trails; and job reports

by subdivision, job, and job subphase. Reports generated include available discounts and potential finance-charge schedules, check register with broken check sequence and voided checks, payroll and accounts payable checks, trial balance and funds flow worksheet, and budget variance by subdivision, job, and job subphase.

Compatibility Matrix: 215.0025.002
Features Matrix: 215.0030.002**CYMA CORP**2160 E Brown Rd
Mesa AZ 85203

(602) 835-8880

► Dental

A dental office system for numerous microcomputers

Price: \$1,695 purchase**Environment** Computers: any running under CP/M, MP/M II, PC DOS, MS-DOS, or TurboDOS. Main storage: 48K bytes. Source language: CBASIC.**Capabilities** Variable-aging and future-due report. Patient list. Mailing labels. Statements with optional message area. Current-period practice analysis. Patient-recall report with list and labels. Referring-physician analysis.**Description** The CYMA Dental system is designed to provide patient billing and analysis for individual- and multiple-practice dental offices. Patient billing consists of a combination of open item, balance forward, or contract receivables with payment book. The system can handle third-party billing and insured-party information. As many as 26 user-defined procedure billing codes can be used to key the processing of customer statements. In addition, finance charges can be automatically calculated, and each invoice can be printed with a special notice.**Compatibility Matrix:** 215.0025.002
Features Matrix: 215.0030.002

CYMA CORP

2160 E Brown Rd
Mesa AZ 85203

(602) 835-8880

► Medical

A medical office billing system for numerous microcomputers

Price: \$1,695 purchase

Environment Computers: any running under CP/M, MP/M II, PC DOS, MS-DOS, or TurboDOS. Main storage: 48K bytes. Source language: CBASIC.

Capabilities Billing consists of a combination of open item, balance forward, and contract receivables with payment book. Handles third-party billing and insured-party information. Supports as many as 26 user-defined billing codes. Automatically calculates finance charges. Can print special messages on individual customer statements.

Description The CYMA Medical system is a patient accounting program for individual- and multiple-practice physician's offices. Printed output includes a variable-aging and future-due report; patient list, labels, and/or word processing files; standard insurance forms; statements with optional message areas; current-period practice analysis; referring-physician analysis; and a patient-recall report with list, label, and word processing.

Compatibility Matrix: 215.0025.002
Features Matrix: 215.0030.002

CYMA CORP

2160 E Brown Rd
Mesa AZ 85203

(602) 835-8880

► Orthodontic

A dental-specialist support system for numerous microcomputers

Price: \$1,695 purchase

Environment Computers: any running under CP/M, MP/M II, PC DOS, MS-DOS, or TurboDOS. Main storage: 48K bytes. Source language: CBASIC.

Capabilities Variable-aging and future-due reports. Can process standard insurance forms. Supports patient list, labels, and/or word processing files. Prints customer statements with optional message area. Performs current-period practice and referring-physician analyses. Produces patient-recall report with list, label, or word processing.

Description The CYMA Orthodontic system provides patient billing and analysis for dental specialists. Billing consists of a combination of open item, balance forward, and contract receivables with payment book and can provide automatic finance-charge calculation. The system handles third-party billing and insured-party

information and can perform current-period-practice and referring-physician analyses.

Compatibility Matrix: 215.0025.002
Features Matrix: 215.0030.002

DESIGNERS AND BUILDERS OF INFORMATION SYSTEMS (DBIS)

One Mayfair Rd
Eastchester NY 10707

(914) 632-2816

► Grants Accounting System

A budget-control and payroll system

Price \$2,000 purchase

Environment Computers: Northstar, others running under TurboDOS or CP/M. Main storage: 48K bytes. Source language: BASIC.

Capabilities Award master report. Subaccounts status report. Monthly statements and indirect costs reporting. Transaction and purchase-order/requisitions logs. Transactions history inquiries. Reconciliation worksheet and verification report. Employee payroll report. Payroll status and payroll transactions processing reports.

Description The DBIS Grants Accounting System consists of budget-control and payroll modules that allow in-house tracking of up to 1,000 awards/accounts. The budget-control module contains user-defined data entry functions for purchase order/requisition paperwork, invoices, and other accounting data and provides procedures for data validation and verification of account numbers, dollar amounts, and balances. It also provides balance-forward statements, including detailed audit trails of charges against each account, historical audit trails of individual charges, and a reconciliation function that reconciles grant office and university records. The payroll module handles payroll transactions across multiple awards/accounts on an hourly, weekly, biweekly, monthly, and one-time basis and provides utilities to transfer, transfer retroactively, terminate, and revise an employee's personnel status, as well as calculate fringe expenses and subaccount charges.

Compatibility Matrix: 215.0025.002
Features Matrix: 215.0030.002

**DESIGNERS AND BUILDERS OF
INFORMATION SYSTEMS (DBIS)**

One Mayfair Rd
Eastchester NY 10707

(914) 632-2816

► Retail Pharmacy System

A pharmacist support system

Price \$4,000 purchase

Environment Computers: Northstar, others running under TurboDOS or CP/M. Main storage: 48K bytes. Source language: BASIC.

Capabilities Individual or family medical-expense summaries. DEA reports for control drugs prepared at end of each day. Inventory reports on controlled and noncontrolled drugs on demand. Automatically identifies, by displaying number, required accessory labels. Displays drug colors to help ensure accuracy.

Description The DBIS Retail Pharmacy System provides prescription filling and third-party billing, as well as processing of data on families, individuals, patient drug profiles, drugs, drug pricing, and doctors. It displays all information that a pharmacist should review when filling prescriptions and allows refills to be processed simply by referring to the prescription number. The system operates by assigning a prescription number, pricing the drug, and then printing both a label and a receipt. In addition, it can provide reminders to the pharmacist on drug interactions and patient allergies that should be considered before filling the prescription and printing the label.

Compatibility Matrix: 215.0025.002
Features Matrix: 215.0030.002

**DESIGNERS AND BUILDERS OF
INFORMATION SYSTEMS (DBIS)**

One Mayfair Rd
Eastchester NY 10707

(914) 632-2816

► Vehicle Reservation System

A reservation tracking program

Price \$1,000 purchase

Environment Computers: Northstar, others running under TurboDOS or CP/M. Main storage: 48K bytes. Source language: BASIC.

Capabilities Maintains an information bank of all reservations. Instant on-screen reservation information indicating name, address, home and business phone numbers, origination, destination, time, charges, deposit, and balance due. Indicates vehicle availability when booking a reservation. Provides data on reservations by date or by vehicle, including vehicle activity reporting.

Description The DBIS Vehicle Reservation System enables accurate and efficient booking of reservations. It uses a two-step booking-process check for vehicle availability, enters customer information, and displays all

booking information for review on a CRT screen. Reports generated include a weekly vehicle service report, vehicle information report, and daily, weekly, and monthly activity reports. Reports provide details on vehicles requiring service, including the type of service necessary (e.g., oil change, tune-up, and insurance or registration renewal); vehicle options, rates, and insurance; and vehicle arrival and departure schedules.

Compatibility Matrix: 215.0025.002
Features Matrix: 215.0030.002

DIGITAL MARKETING CORP

2363 Boulevard Circle
Walnut Creek CA 94595

(415) 947-1000

► Datebook II

An office appointment program

Price \$295 purchase

Environment Computers: any running under CP/M. Main storage: 56K bytes. Source language: Pascal/M or UCSD Pascal.

Capabilities Provides office appointment book and calendar. Schedules appointments according to multiple criteria. Searches for openings in appointment calendar and lists available dates and times.

Description Datebook II provides a microcomputer with an office appointment book and a calendar. Designed primarily for physicians and attorneys, the program schedules appointments by client name, nature of visit, date, time of day, and the length of the visit. Included are a configuration program that customizes the system for any one of 34 standard terminals, a teaching-aid program for practice in program data entry, and a formatting program that sets up a data base for scheduling in a particular office. Datebook II can search for an opening in an appointment calendar and list available times and dates.

Compatibility Matrix: 215.0025.002
Features Matrix: 215.0030.002

DIGITAL MARKETING CORP

2363 Boulevard Circle
Walnut Creek CA 94595

(415) 947-1000

► **Field Companion**

A time and expense reporting system

Price \$295 purchase

Environment Computers: any running under CP/M or CP/M-86. Main storage: 56K bytes. Source language: Pascal.

Capabilities User can track time spent with clients, with four user-defined subfields per client. Expense accounts are itemized in a detailed journal for budgeting and tax purposes. Maintains appointments and current customer list, including shipping and billing addresses and person to contact for follow up. All reports can be sent to home office via modem.

Description Field Companion allows traveling professionals to maintain customer files, product files, a time log, and expense-account data.

Compatibility Matrix: 215.0025.002

Features Matrix: 215.0030.002

DIRECT AID

695-C S Broadway
Boulder CO 80303

(303) 494-8265

► **LawSearch**

A communications package for lawyers and accountants

Price \$350 purchase

Environment Computers: not specified. Main storage: 96K bytes. Source language: not specified.

Capabilities Emulates the Hazeltine 1520 terminal. Forward and reverse scrolling. Communications parameters can be modified.

Description LawSearch gives users access to Westlaw, a legal data base offered by West Publishing Co. Users can download files and convert them to ASCII text format for word processing.

Compatibility Matrix: 215.0025.003

Features Matrix: 215.0030.003

ENTERPRISE COMPUTER SYSTEMS INC

IBM Bldg
815 S Main Suite G-16
PO Box 10156
Jacksonville FL 32207

(904) 399-3899

► **BMS (Builders Management System)**

An integrated job cost control and management system

Price \$2,500 purchase

Environment Computers: IBM Personal Computer. Main storage: 192K bytes. Source language: BASIC.

Capabilities Allows the builder or contractor to keep complete detailed job cost reports on up to 100 jobs in progress. An optional payroll module provides certified labor reports.

Description BMS provides the builder or contractor with total job cost control. Job estimating and payroll modules are also available.

Compatibility Matrix: 215.0025.003

Features Matrix: 215.0030.003

EXECUWARE

7415 Pineville-Matthews Rd
Box 10
Charlotte NC 28226

(704) 541-1199

► **Real Estate Analysis Package (REAP)**

A real estate analysis and management program

Price \$150 purchase

Environment Computers: IBM Personal Computer. Main storage: 64K bytes. Source language: BASIC.

Capabilities Loan amortization. Internal rates of return. Lease versus buy analysis. Depreciation schedules. Income projections. Operating expenses. Tax planning.

Description The Real Estate Analysis Package (REAP) assists in the analysis and management of investment properties. Data for up to 15 investments can be stored on each disk, with no limit on the total investment properties tracked. The system details loan information, with up to three loans allowed per property. The analysis feature performs calculations for self-amortizing, balloon, assumed, and switched loans.

Other calculations track vacancies and other factors necessary to efficient management of investment properties.

Compatibility Matrix: 215.0025.003

Features Matrix: 215.0030.003

FARMLAND COMPUTER SYSTEMS

900 S Winchester
Suite 10
San Jose CA 95128

(408) 554-0708

► Crop Management Package

A crop and resource management package

Price \$695 purchase

Environment Computers: Apple II. Main storage: 48K bytes. Source language: Applesoft BASIC.

Capabilities Provides records by field and crop. Creates crop budgets. Monitors cash flow. Prints reports on required and used resources. Maintains records on field applications.

Description Crop Management Package maintains records for 150 fields, 200 resources, and 50 user-defined application programs.

Compatibility Matrix: 215.0025.003
Features Matrix: 215.0030.003

FARMLAND COMPUTER SYSTEMS

900 S Winchester
Suite 10
San Jose CA 95128

(408) 544-0708

► Dairy Herd Management Package

A management system for dairy farmers

Price \$695 purchase

Environment Computers: Apple II. Main storage: 48K bytes. Source language: Applesoft BASIC.

Capabilities Data entry. Management records. Action lists. Individual cow reports.

Description Dairy Herd Management Package maintains individual, detailed records on production and breeding for up to 590 cows.

Compatibility Matrix: 215.0025.003
Features Matrix: 215.0030.003

FEITH SYSTEMS AND SOFTWARE

One Bala Plaza
Suite E 133
Bala Cynwyd PA 19004

(215) 667-5575

► Rental Property Management

A property accounting system

Price \$1,000 purchase

Environment Computers: any running under OASIS. Main storage: 64K bytes. Source language: BASIC.

Capabilities Integrated system consisting of general ledger, accounts receivable, and accounts payable. Can support unlimited number of rental units. Automatic monthly invoicing.

Description Rental Property Management is an integrated rental-management system designed to account for and report on all aspects of rental-property management. The system can handle any number of rental units and automatically invoices each unit each month. Invoices can cover up to six charges, including maid service, garage usage, and pet support. Reports provided detail both occupied and vacant units.

Compatibility Matrix: 215.0025.003
Features Matrix: 215.0030.003

E.F. HASKELL & ASSOCIATES

1528 E Missouri
Suite A131
Phoenix AZ 85014

(602) 277-2534

► AUDIT

A set of auditing tools for CPAs

Price \$187 purchase

Environment Computers: any microcomputer running under CP/M or MS-DOS. Main storage: 56K bytes. Source language: BASIC.

Capabilities Depreciation analysis. Loan amortization. Inventory volume analysis. Long-term scheduling. F.A.S.B. #13 lease analysis. Unit of measurement conversion. Random number generator.

Description AUDIT is a menu-driven set of auditing tools designed for in-house auditing departments as well as independent auditors. AUDIT features a variety of routines for financial analysis and generates auditing worksheets on demand.

Compatibility Matrix: 215.0025.003
Features Matrix: 215.0030.003

E.F. HASKELL & ASSOCIATES

1528 E Missouri
Suite A131
Phoenix AZ 85014

(602) 277-2534

► Job Cost (CropCost)

A cost accounting system for construction and agribusiness industries

Price \$1,050 purchase

Environment Computers: microcomputers running under CP/M or MS-DOS. Main storage: 56K bytes. Source language: BASIC.

Capabilities Provides cost-accounting, vendor-payment, and cost-estimation features.

Description Job Cost (CropCost) is a comprehensive cost-accounting system suitable for the construction and agribusiness industries. It also provides vendor-payment and cost-estimation features.

Compatibility Matrix: 215.0025.003
Features Matrix: 215.0030.003



E.F. HASKELL & ASSOCIATES

1528 E Missouri
Suite A131
Phoenix AZ 85014

(602) 277-2534

► **Programmed Assignment of Client Engagement (PACE)**

A client-tracking system

Price \$595 purchase

Environment Computers: microcomputers running under CP/M or MS-DOS. Main storage: 56K bytes. Source language: BASIC.

Capabilities Controls filing dates, staff assignments, time budgets, and completed unbilled engagements.

Description PACE is a production-control package for accounting, law, and other professional practices. It provides control over filing dates, staff assignments, time budgets, and completed unbilled engagements. It uses target dates and due dates to control the lead time needed to complete an engagement. PACE budgets, by staff member, preparation time and review time for each engagement phase.

Compatibility Matrix: 215.0025.003
Features Matrix: 215.0030.003

E.F. HASKELL & ASSOCIATES

1528 E Missouri
Suite A131
Phoenix AZ 85014

(602) 277-2534

► **TKR III**

A time and billing system

Price \$1,300 purchase

Environment Computers: microcomputers running under CP/M or MS-DOS. Main storage: 56K bytes. Source language: BASIC.

Capabilities Provides computerized time and billing.

Description TKR III is a standalone time and billing system designed for small- to large-sized accounting, legal, and other professional practices. TKR III provides control and accountability for billable and nonbillable time by maintaining an employee data base of hours worked, work type and skill level, and client project.

Compatibility Matrix: 215.0025.003
Features Matrix: 215.0030.003

E.F. HASKELL & ASSOCIATES

1528 E Missouri
Suite A131
Phoenix AZ 85014

(602) 277-2534

► **UTILIBILL**

A public utility accounts receivable and billing system

Price \$925 purchase

Environment Computers: microcomputers running under CP/M or MS-DOS. Main storage: 56K bytes. Source language: BASIC.

Capabilities Provides monthly billing and accounts receivable functions.

Description This standalone utility billing system allows managers or accountants of small- to medium-sized public utilities (e.g., water, gas, sewer, electric) to perform monthly billing and accounts receivable functions in a routine and timely manner.

Compatibility Matrix: 215.0025.003
Features Matrix: 215.0030.003

HOWARD SOFTWARE SERVICES

8008 Girard Ave
Suite 310
La Jolla CA 92037

(619) 454-0121

► **Real Estate Analyzer**

A real estate investment analysis system

Price \$225 purchase (Apple), \$250 purchase (IBM)

Environment Computers: Apple II+, III; IBM Personal Computer. Main storage: 48K bytes (Apple), 64K bytes (IBM). Source language: BASIC.

Capabilities Six-selection menu with what-if and reports options. Cash-flow analysis provides annual income and expense projections; ROI analysis projects gross sales price and tax on gains. Up to seven methods of ROI calculations. Uses Financial Management Rate of Return (FMRR) analysis.

Description Real Estate Analyzer is an investment analysis system designed to provide cash-flow and ROI analyses based on property values, depreciation, and taxes. The system satisfies the provisions of the 1981 Economic Recovery Act.

Compatibility Matrix: 215.0025.003
Features Matrix: 215.0030.003

HUMAN EDGE SOFTWARE CORP

2445 Faber Pl
Palo Alto CA 94303

(415) 493-1593

► The Sales Edge

A sales strategy package

Price \$250 purchase

Environment Computers: IBM Personal Computer and compatible microcomputers. Main storage: 128K bytes. Source language: Pascal.

Capabilities Provides information about customer buying styles. Notes behaviors to emphasize or avoid. Prepares strategies for opening, presenting, and closing.

Description The Sales Edge helps evaluate the human factors that affect sales performance. It provides analyses of customers' answers to a series of questions. The Sales Edge provides step-by-step strategies based on sales theory and research.

Compatibility Matrix: 215.0025.003

Features Matrix: 215.0030.003

INCOM SYSTEMS

9515 Sandpoint Way NE
Seattle WA 98115

(206) 527-8895

► CAM-II

A custom-designed turnkey system for contractors

Price \$89 purchase per module

Environment Computers: NEC PC 8800, IBM Personal Computer. Main storage: 64K bytes. Source language: BASIC.

Capabilities Integrated applications processing of job costing data; labor distribution; and accounts receivable in an interactive mode.

Description CAM-II is a turnkey accounting system that consists of six individual modules: job costing, accounts receivable, accounts payable, general ledger, and payroll programs. The CAM-II system can be purchased on a module-by-module basis.

Compatibility Matrix: 215.0025.003

Features Matrix: 215.0030.003

INFORMATION NETWORK SYSTEMS

PO Box 2011
Warminster PA 18974

(215) 364-8220

► Video Software Management System

An inventory and sales analysis program for videotape retailers

Price \$2,000 purchase

Environment Computers: microcomputers running under CP/M or MP/M. Main storage: 64K bytes. Source language: C.

Capabilities Compiles daily totals of sales, rentals, and returns. Tracks inventory. Lists overdue rentals with customer's name, address, and phone number. Prepares catalogs of tape library by both title and category. Analyzes sales and rentals by both title and category. Tracks club membership. Prints mailing lists, renewal notices, and lists of clients selected according to their interests.

Description The Video Software Management System is an online, transaction-oriented accounting system for videotape retailers. Each transaction generates a printed sales slip with adjustments for deposits, promotions, and partial payments. All transactions are automatically recorded in the daily journal. The inventory control and club membership functions are designed to be used interactively in a sales environment.

Compatibility Matrix: 215.0025.003

Features Matrix: 215.0030.003

INNOVATIVE SOFTWARE ASSOCIATES

80 Wall St
New York NY 10005

(212) 422-5186

► VIDEO/TRAK

An inventory and sales analysis program for videotape retailers

Price Vendor declined to provide

Environment Computers: Tandy Radio Shack TRS-80 Models III and 12. Main storage: not specified. Source language: not specified.

Capabilities Lists inventory by film title, category, and tape format. Maintains customer master file. Prints invoices and promotional mailings.

Description VIDEO/TRAK is designed specifically for videotape retailers. The system maintains an inventory listing of all tapes, including those currently rented. The customer profile displays name, address, credit card number, and primary category of interest. VIDEO/TRAK uses the customer master file to generate mailing lists, by interest, for use in promotional mailings. The list constructed by VIDEO/TRAK can be used with a WP program for merged mailing of personalized letters. VIDEO/TRAK monitors tape rentals, including tapes, customers, rental rates, and return dates. When a tape is returned by a customer, the on-rental file is automatically updated and a customer invoice is generated.

Compatibility Matrix: 215.0025.003

Features Matrix: 215.0030.003



INTERNATIONAL MICRO SYSTEMS (IMS)6445 Metcalf
Shawnee Mission KS 66202

(913) 677-1137

► Medical Office Management System

A clinic accounting and scheduling system

Price Vendor declined to provide**Environment** Computers: any running under CP/M, MP/M II, MP/M-86, MS-DOS, and PC DOS. Main storage: 48K bytes. Source language: BASIC.**Capabilities** Office scheduler. Patient billing and receiving. Insurance forms. Generates and updates day sheets. Aged trial balance by 30-, 60-, 90-, and prior-day totals. Insurance report evaluation. ICDA and CPT code breakdown by clinic and by doctor. Patient inactive file.**Description** The IMS Medical Office Management System provides small- to medium-sized medical clinics with a system for processing patient receivables and maintaining office schedules. Activities provided include monthly statement printing, filling out of insurance forms, and report generation according to ICDA and CPT usage for each doctor and for the clinic as a whole. Reports produced include a patient master list, doctor list, insurance list, inactive patient list, patient charges and payments by doctor, ICDA codes and usage and CPT codes and usage by doctor, patient billing and receivables, and an aged trial balance.

IMS also markets a Dental Office Management System with similar capabilities.

Compatibility Matrix: 215.0025.003
Features Matrix: 215.0030.003

JEB SYSTEMS57 Main St
Franconia NH 03580

(603) 823-5587

► Marketing Management System (MMS)

A marketing information management package

Price Vendor declined to provide**Environment** Computers: any running under CP/M 2.2, CP/M-86, MP/M, TurboDOS, PC DOS, MS-DOS, MmmOST, or Unix. Main storage: 64K bytes. Source language: not specified.**Capabilities** Online inquiry. Provides mailing labels, file folder labels, index file cards, and salesperson files. Prints information needed by telemarketing staff to qualify prospects. Sends telemarketing information to outside salespeople. Provides sales call cards and sales territory listings. Produces daily, weekly, or monthly follow-up reports. Interfaces with MicroPro WordStar and MailMerge, and Ashton-Tate dBase II.**Description** MMS stores marketing information for managers and direct mail, telemarketing, sales, and office staff members. For each client company, MMS

maintains a file containing company name, address, telephone, number of employees, SIC code, individual contact name and title, advertising source, product interest, potential, literature requested, follow-up dates, dollar amount of purchases, salesperson number, and three user-defined codes.

In addition, the system stores account activity (six lines of 40 characters) and account history (six lines of 40 characters).

Compatibility Matrix: 215.0025.003
Features Matrix: 215.0030.003

JERSEY MICRO SYSTEMS1200B Haddonfield Rd
Cherry Hill NJ 08002

(609) 665-7611

► Property Management

A management system for CP/M-based computers

Price \$750 purchase**Environment** Computers: any running under CP/M. Main storage: 48K bytes. Source language: CBASIC.**Capabilities** Tracks tenant activity and lease information. Provides property information. Receives and verifies payments. Prints checks and a check register. Provides operating statements, a general ledger account summary, and five other reports.**Description** The Property Management system, designed for residential rather than commercial property, uses a cash accounting method. It stores names, addresses, telephone numbers, and payment histories and late fees of tenants, as well as lease information on move-in dates, rent, and security deposits. It also keeps records of property names, unit descriptions, rents, and management fees. Two charts of accounts are included. Property Management keeps track of receipts and expenditures. It verifies payment and prints checks, operating statements, a check register, general ledger account summary, late payment report, vacancy report, transaction summary, rent roll report, and working capital balance report.**Compatibility Matrix:** 215.0025.003
Features Matrix: 215.0030.003

THE LWFW GROUP

12700 Park Central
Suite 1805
Dallas TX 75251

(214) 233-5561

► The Work Management System

A labor management system for municipal governments and public service utilities

Price \$3,950 purchase

Environment Computers: any microcomputer supporting dBASE II under CP/M, CP/M-86, MS-DOS, or PC DOS. Main storage: 64K bytes. Source language: not specified.

Capabilities Supports an organization or department with up to 400 employees performing a maximum of 5,000 jobs per month. Tracks backlog of pending jobs, including recurring jobs, planned projects, and emergency calls. Reports in detail on work performed, resources utilized, and job costs.

Description The Work Management System helps field operations managers plan and schedule work, evaluate crew performance, and improve productivity. Although useful in any labor-intensive industry, it was designed for use in municipal and public-service organizations.

The Work Management System can be purchased individually or with LFWF's management training and development program.

Compatibility Matrix: 215.0025.003

Features Matrix: 215.0030.003

MARINE MANAGEMENT SYSTEMS

102 Hamilton Ave
Stamford CT 06902

(203) 327-6404

► MMS CARGODOC

A shipping management package for small and medium-sized shipping companies

Price Vendor declined to provide

Environment Computers: IBM Personal Computer. Main storage: 256K bytes. Source language: not specified.

Capabilities Links to other microcomputers via data communications network. Data base management. Screen control. Report generation.

Description MMS CARGODOC handles bills of lading, due bills, manifests, and accounts receivable information in shipping companies. It stores voyage-related cargo information associated with vessel manifest preparation.

The system produces information that satisfies U.S. Customs requirements.

Compatibility Matrix: 215.0025.003

Features Matrix: 215.0030.003

MICRO BUSINESS SYSTEMS

7725 Broadway
Suite B
Merrillville IN 46410

(800) 448-1212
(219) 769-3445

► Client Write-Up System

A client-tracking and reporting system

Price \$795 purchase

Environment Computers: microcomputers running under CP/M or CP/M-86. Main storage: 64K bytes. Source language: MBASIC.

Capabilities Supports multiple companies. Chart of accounts. Calculates tax rates and limits. Report writer. Audit trail. Automatic backup of fiscal periods.

Description The Client Write-Up System provides accounting functions for service bureaus and CPA firms. Combining general ledger and payroll, and designed for businesses that handle financial write-up services for other businesses, the system provides a user-definable chart of accounts, tax rates, and limits; monthly, end-of-quarter, and year-end detailed reports; and W-2 preparation.

Compatibility Matrix: 215.0025.004

Features Matrix: 215.0030.004

MICRO DATA BUSINESS FORMS & SYSTEMS

5707 Lacey Blvd #104
Olympia WA 98503

(206) 459-3300

► Membership Billing

An online membership billing and reporting system

Price \$600 purchase

Environment Computers: any running under CP/M. Main storage: 48K bytes. Source language: CBASIC.

Capabilities Menu selection entry. User-defined customer numbers and service codes. Extensive error detection and prevention of invalid entry. Any number of one-time changes. Calculates finance charges. Automatic aging at month's end. Integrated to General Ledger. Complete reports include monthly customer statements and master customer list with aging and delinquency. Daily and monthly transaction registers.

Description Membership Billing is an online billing and reporting system designed for club membership processing of monthly, quarterly, semiannual, or annual dues.

Compatibility Matrix: 215.0025.004

Features Matrix: 215.0030.004



MICRO INFORMATION SYSTEMS

Rte 309 and Richardson Rd
Montgomeryville PA 18936

(215) 855-2700

► ESQ-1 Legal Time and Billing

A time and billing package for legal offices

Price \$1,995 purchase

Environment Computers: any running under CP/M or MS-DOS. Main storage: 48K bytes. Source language: CBASIC.

Capabilities Records billable and nonbillable time. Handles up to 10 billing rates per person. Records reimbursable costs. Adds markup to costs for overhead. Allocates receipts by attorney. Allows multiple user-defined invoice formats. Generates reports. Menu driven.

Description Through ESQ-1, law firms can access client-related accounting information concerning services rendered, costs incurred, billings sent, cash received, and escrow transactions. The system helps managers control accounts receivable, unbilled work in process, and the time of professionals.

Compatibility Matrix: 215.0025.004

Features Matrix: 215.0030.004

MICRO INFORMATION SYSTEMS

Rte 309 and Richardson Rd
Montgomeryville PA 18936

(215) 855-2700

► Professional Time and Billing (PROMOT)

A professional time and billing package

Price \$1,995 purchase

Environment Computers: any running under CP/M or MS-DOS. Main storage: 48K bytes. Source language: CBASIC.

Capabilities Records billable and nonbillable time. Handles up to 10 billing rates per person. Records reimbursable costs. Adds markup to costs for overhead. Records cash receipts, including advances. Allows multiple user-defined invoice formats. Generates reports. Menu driven.

Description PROMOT enables managers to access client-related accounting information for services rendered, costs incurred, billings sent, cash received, and escrow transactions. The package helps managers control the time of professionals as well as accounts receivable and unbilled work in process.

Compatibility Matrix: 215.0025.004

Features Matrix: 215.0030.004

MICRO INFORMATION SYSTEMS

Rte 309 and Richardson Rd
Montgomeryville PA 18936

(215) 855-2700

► THE MAGIC QUILL

A bookkeeping and accounting package for accountants

Price \$1,995 purchase

Environment Computers: any running under CP/M or MS-DOS. Main storage: 48K bytes. Source language: CBASIC.

Capabilities Automatic bank account reconciliation. Automatically posts recurring entries. Prepares working trial balance and financial statements. Maintains depreciation schedules. Performs loan amortization. Validates input. Unlimited number of ledger accounts. Generates reports. Menu driven.

Description THE MAGIC QUILL contains most of the application features that accounting firms need to serve their clients. The system prepares all books of original entry, such as sales, receipts, purchases, cash disbursements, general journals, payroll registers, and specialized journals. Journals can be created from various sources, including:

- Sales slips, paid bills, petty cash slips, and other source documents
- Check stubs, cancelled checks, and deposit slips
- Preliminary transaction listings, such as those kept in a single-entry bookkeeping system
- Other fully or partially prepared journals

THE MAGIC QUILL permits posting to the general ledger from summarized journals or through entry of individual transactions.

Compatibility Matrix: 215.0025.004

Features Matrix: 215.0030.004

MICRO INFORMATION SYSTEMS

Rte 309 and Richardson Rd
Montgomeryville PA 18936

(215) 855-2700

► THE SCHEDULER

A docket and calendar scheduling and control package

Price \$995 purchase

Environment Computers: any running under CP/M or MS-DOS. Main storage: 48K bytes. Source language: CBASIC.

Capabilities Accesses all appointment calendars. Generates control schedules based on selection criteria. Produces a calendar for each professional. Automatic docket numbering. Generates reports. Menu driven.

Description THE SCHEDULER designed for lawyers, accountants, architects, engineers, medical doctors, and other professionals. The system records individual or multiple occurrence docket dates, client appointments, and tasks. It keeps track of court appearances, client appointments, filing dates, statute of limitation deadlines, tax return due dates, and collection processing dates.

Compatibility Matrix: 215.0025.004

Features Matrix: 215.0030.004

MICRO-CROP

8245 NW 53 St
Suite 111
Miami FL 33166

(305) 594-2925

► Crop Management

An online interactive crop-management system

Price \$1,250 purchase

Environment Computers: microcomputers running under CP/M, CP/M-86, PC DOS, TRSDOS, TurboDOS, or Unix. Main storage: 64K bytes. Source language: RM/COBOL.

Capabilities Features total production cost associated with a crop or land unit; user- or system-defined cost categories; historical records developed by crop or land unit, information from history by crop types, land units, growing seasons, or cost categories. Provides current cost information—with automatic cost updates from inventory items—and current sales information and harvest update. Recommends times, rates, and dates of fertilizer and chemical applications. Soil-test analysis.

Description The Crop Management system is an all-inclusive production guide, with cost accounting and in-depth land information to take the grower from seed to harvest and through packing, sales, and distribution. The system can be integrated with other MICRO-CROP systems.

Compatibility Matrix: 215.0025.004

Features Matrix: 215.0030.004

MICRO-CROP

8245 NW 53 St
Suite 111
Miami FL 33166

(305) 594-2925

► Farm and Grower Commodity Sales and Billing

A fully integrated order entry, invoicing, and inventory control system

Price \$2,000 purchase

Environment Computers: any under CP/M, CP/M-86, PC DOS, TRSDOS, TurboDOS, or Unix. Main storage: 64K bytes. Source language: RM/COBOL.

Capabilities Complete order entry, billing, inventory, and accounts receivable. Capacity for 1,000 growers and 10,000 commodities. Daily order entry of invoices and credit memos and recap of commodity packout by growers. Prints invoices. Daily harvest entry and inventory update. Order modification.

Description The Farm and Grower Commodity Sales and Billing system produces a daily retail growers' tally, with customer list and sales price by commodity. It handles local and ship-to addresses for customers and posts cash receipts, trial balance, aging, and statements.

Compatibility Matrix: 215.0025.004

Features Matrix: 215.0030.004

MICRO-CROP

8245 NW 53 St
Suite 111
Miami FL 33166

(305) 594-2925

► Farm Equipment Dealer

A farm equipment inventory and maintenance system

Price \$3,250 purchase

Environment Computers: any under CP/M, CP/M-86, PC DOS, TRSDOS, TurboDOS, or Unix. Main storage: 64K bytes. Source language: RM/COBOL.

Capabilities Can be configured as a standalone inventory system with complete over-the-counter files. Features include generation of invoices, charges of parts and labor to customers with service work order, cash receipts entry and journal, statement and aged trial balance on demand, online customer inquiry.

Description Farm Equipment Dealer produces an equipment and parts inventory and allows use of manufacturers' numbers. It also provides daily parts, labor, and stock updates; daily distribution of costs to equipment; monthly totals for general ledger distribution and vehicle; month-to-date and year-to-date totals; fuel-consumption tracking; mileage and hours records for maintenance; and tire usage and cost per vehicle.

Compatibility Matrix: 215.0025.004

Features Matrix: 215.0030.004



MICRO-CROP

8245 NW 53 St
Suite 111
Miami FL 33166

(305) 594-2925

► Farms Supplies Management

An inventory and cost-analysis system for farm supplies

Price \$650 purchase

Environment Computers: microcomputers running under CP/M, CP/M-86, PC DOS, TRSDOS, TurboDOS, or Unix. Main storage: 64K bytes. Source language: RM/COBOL.

Capabilities Features centralized purchasing for several departments or companies; purchase history by vendor; warehouse inventory; monthly statement per company or department; monthly general ledger and distribution totals. Compares vendor prices. Supplies cost information; stock entry and reduction; inventory inquiry; direct purchase to department or to warehouse stock reduction.

Description Farms Supplies Management provides updated inventory and cost analyses on all farm supplies used. The system can be integrated with other MICRO-CROP systems.

Compatibility Matrix: 215.0025.004
Features Matrix: 215.0030.004

MICRO-CROP

8245 NW 53 St
Suite 111
Miami FL 33166

(305) 594-2925

► Feedlot System

An online feedlot accounting system

Price \$2,500 purchase

Environment Computers: microcomputers running under CP/M, CP/M-86, PC DOS, TRSDOS, TurboDOS, or Unix. Main storage: 64K bytes. Source language: RM/COBOL.

Capabilities Features feed cost, feed rates, nutritional requirements, medication needs, genetics, feed palatability; weight or production yields; and sales analysis. Billing and inventory with optional interface to accounts receivable.

Description The Feedlot System is an online interactive system with feed costs, sales, and accounting abilities. A parameter-driven system, it is specifically designed to satisfy the particular conditions of a given feedlot. The system can be integrated with other MICRO-CROP systems.

Compatibility Matrix: 215.0025.004
Features Matrix: 215.0030.004

MICRO-CROP

8245 NW 53 St
Suite 111
Miami FL 33166

(305) 594-2925

► Fertilizer Dealer

An online interactive blending, sales, and accounting package

Price \$4,000 purchase

Environment Computers: microcomputers running under CP/M, CP/M-86, PC DOS, TRSDOS, TurboDOS, or Unix. Main storage: 64K bytes. Source language: RM/COBOL.

Capabilities Features mix ticket for each customer; online order entry for bulk blend and bag fertilizer; automatic or manual blending of liquid and/or dry mix; permanent registration of formula; raw material and finished mix inventory; and production batch recommendations. Performs automatic billing with optional interface to accounts receivable. Analyzes sales by customer and territory.

Description Fertilizer Dealer is an online interactive sales and accounting system that aids in the management of wholesale and retail fertilizer operations. It can be integrated with other MICRO-CROP systems.

Compatibility Matrix: 215.0025.004
Features Matrix: 215.0030.004

MICRO-CROP

8245 NW 53 St
Suite 111
Miami FL 33166

(305) 594-2925

► Purveyor

An automated sales and inventory system for wholesale produce sales and distribution

Price \$4,000 purchase

Environment Computers: microcomputers running under CP/M, CP/M-86, PC DOS, TRSDOS, TurboDOS, or Unix. Main storage: 64K bytes. Source language: RM/COBOL.

Capabilities Online order entry and invoicing. Billing by units, fixed weight, or catch weight. Automatic inventory updates and re-order information. Online inventory inquiry, customer credit limits, open balances, and payment analysis. Profitability report. Automatic pricing by customer and commodity.

Description The Purveyor system records orders, billings, sales, and inventory for wholesale produce sales and distribution. It can be integrated with other MICRO-CROP systems.

Compatibility Matrix: 215.0025.004
Features Matrix: 215.0030.004

MIDWEST COMPUTER CENTER

5785 Merle Hay Rd
PO Box 188
Johnston IA 50131

(515) 276-3387

► **Time Recording and Management System (TRAMS)**

A time-management and billing system

Price \$2,995 purchase

Environment Computers: any running under CP/M. Main storage: 64K bytes. Source language: FORTRAN.

Capabilities Simplifies time recording and bill generation. Detailed analysis. Personnel performance reporting. Client listing by client type, project, or partner. Work-in-progress by project type, client, partner, or secondary client. Schedules and daily appointment log.

Description TRAMS is a package designed to track and analyze personnel time and project run-time hours and costs. Suited to engineering firms, architectural firms, lawyers, and accountants, the program simplifies the processes of recording time and generating billing, and analyzes profitability and productivity. TRAMS can support up to 650 client names and addresses and 750 active projects and cases and can be used by a maximum of 330 personnel or 60 different partners. As many as 378 individual billing items per person per billing cycle can be recorded. Functions provided include scheduling, project management, and what-if analysis. Reports produced include income analysis, project management statistics, client statements, project billing statements, and recorded and reported time reports.

Compatibility Matrix: 215.0025.004
Features Matrix: 215.0030.004

OCCUPATIONAL COMPUTING CO (OCC)

22311 Ventura Blvd
Suite 123
Woodland Hills CA 91364

(213) 999-1919

► **OCC Client Write-Up**

A client accounting system

Price \$750 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT; Tandy TRS-80 Model 16. Main storage: 64K bytes (Tandy), 128K bytes (IBM). Source language: Microsoft BASIC.

Capabilities Simple chart setup. Chart of accounts. Journal entries and reports. General ledger accounting.

Description OCC Client Write-Up supports a variety of clients and provides both general ledger and budgeting accounting. The program features charts and chart of accounts in standard or customized formats; flexible journal entry and selective journal reports; financial statement generation, including balance sheet, income statements, and cash receipts and disbursements jour-

nals; and budgeting that includes a yearly ledger, supplemental schedules, and automatic adjustments.

Compatibility Matrix: 215.0025.004
Features Matrix: 215.0030.004

OHIO DATA BASE

4402 W 215th St
Suite 1
Cleveland OH 44126

(216) 333-5033

► **Country Club Accounting**

A membership accounting system

Price \$4,500 purchase

Environment Computers: Alpha Micro running under AMOS. Main storage: 64K bytes. Source language: BASIC.

Capabilities Club billing. Handicapping. General ledger and basic accounting.

Description Country Club Accounting is a multiuser, multitasking membership accounting system. Designed to handle virtually unlimited membership and transaction volume, the program provides accounts payable, club billing, payroll, handicapping, and general ledger functions.

Compatibility Matrix: 215.0025.004
Features Matrix: 215.0030.004

OR-D SYSTEMS

1200B Haddonfield Rd
Cherry Hill NJ 08002

(609) 665-2255

► **Dental Management System**

A business management package for dental clinics

Price Vendor declined to provide

Environment Computers: Apple IIe, III, and Lisa; IBM Personal Computer. Main storage: 64K-256K bytes. Source language: Pascal.

Capabilities Generates invoices and reminder notices. Generates forms for scheduled patients. Prepares income reports and insurance claims forms. Patient billing and statement processing. Provides reports on aging receivables. Generates monthly recall lists and mailing labels. Analyzes provider income. History of patient transactions. Maintains referral lists. Compiles insurance statistics reports.

Description Dental Management System provides business management for dental offices. It handles active accounts for up to 25,000 patients, 250 codes, and 15 providers. It includes WP and accounts payable.

Compatibility Matrix: 215.0025.004
Features Matrix: 215.0030.004



OR-D SYSTEMS

1200B Haddonfield Rd
Cherry Hill NJ 08002

(609) 665-2255

► Legal Management System

A business management system for legal offices

Price Vendor declined to provide

Environment Computers: Apple IIe, III, and Lisa; IBM Personal Computer. Main storage: 64K-256K bytes. Source language: Pascal.

Capabilities Time billing and reports. Trust account management. Report generator. Client history of monthly transactions. Billing according to payment arrangement. Monthly billing and aging receivables report. Attorney time management. Collection management report. Maintains opposing party information.

Description Legal Management System provides business management for attorneys' offices. It handles active accounts for up to 25,000 clients, 250 codes, and 15 providers, and it includes WP and accounts payable.

Compatibility Matrix: 215.0025.004

Features Matrix: 215.0030.004

OR-D SYSTEMS

1200B Haddonfield Rd
Cherry Hill NJ 08002

(609) 665-2255

► Medical Management System

A business management system for medical offices

Price Vendor declined to provide

Environment Computers: Apple IIe, III, and Lisa; IBM Personal Computer. Main storage: 64K-256K bytes. Source language: Pascal.

Capabilities Prepares invoice and reminder notices. Generates forms for scheduled patients. Provides income reports and insurance claim forms. Patient billing and statement processing. Provides report on aging receivables. Prepares monthly recall list and mailing labels. Analyzes provider income. History of patient transactions. Maintains referral lists. Generates insurance statistics reports.

Description Medical Management System provides business management for medical offices. It handles active accounts for up to 25,000 patients, 250 codes, and 15 providers. It includes WP and accounts payable.

Compatibility Matrix: 215.0025.004

Features Matrix: 215.0030.004

PROFESSIONAL COMPUTER SERVICES

524 Cooke St
Honolulu HI 96813

(800) 367-5062
(808) 526-9502

► Advanced Legal Software (ALS)

A management package for small and medium-sized legal offices

Price Purchase: \$1,995 (ALS 6), \$2,495 (ALS 8), \$2,995 (ALS 10)

Environment Computers: any running under CP/M, CP/M-86, MP/M II, MP/M-86, MS-DOS, or PC DOS. Main storage: 64K bytes. Source language: CBASIC.

Capabilities Client billing. Trust accounting. Financial reporting. Calendar monitoring. Docket controller. Client list generation.

Description ALS is available in three versions of different size: ALS 6, ALS 8, and ALS 10. The versions are compatible with each other; therefore, the software package can grow as the office expands.

ALS 6 provides client billing, trust accounting, and financial reporting. ALS 8 provides all ALS 6 features plus calendar monitoring and docket controller systems. ALS 10 provides all ALS 8 features plus client lists in 12 formats, mailing and matter or file labels, a listing of closed accounts, and six additional classes of management reports and summaries.

Compatibility Matrix: 215.0025.004

Features Matrix: 215.0030.004

PROFESSIONAL SOFTWARE INNOVATIONS

118 W Cervantes
Pensacola FL 32501

(904) 434-7450

► Ultra Professional Time Billing System

A client accounting and timekeeping system

Price \$1,500 purchase

Environment Computers: any running under CP/M. Main storage: 64K bytes. Source language: Assembler, PL/I.

Capabilities Records professional time spent. Service descriptions. Tracks out-of-pocket expenses or disbursements. Computes fees.

Description Ultra Professional Time Billing provides an easy-to-use client accounting and timekeeping system. It allows operators to enter professional time spent, services rendered, and the amount of out-of-pocket expenses or disbursements. Fees can be computed automatically by multiplying time by one of several preset rates per timekeeper. In addition, retainer matters and/or flat-fee cases can be mixed with hourly charges. Reports generated by the system include review and final bills, work-in-progress by type of matter and timekeeper, and account aging. Management reports include productivity by type of matter and timekeeper; productive time, based on hours in a month; and analyses of dollar volume generated by timekeeper and/or type of matter.

Compatibility Matrix: 215.0025.004

Features Matrix: 215.0030.004

R&B COMPUTER SYSTEMS

1806 Hwy 35
PO Box 2293
Ocean City NJ 07712

(800) 631-2179
(201) 531-2300

► R&B Client Programmed Accounting

A menu-driven accounting and payroll system

Price \$2,995 purchase

Environment Computers: Northstar Horizon, Advantage; Digital Equipment Rainbow 100; microcomputers running under CP/M, CP/M-86, or MS-DOS. Main storage: 64K bytes. Source language: CBASIC-80, CBASIC-86.

Capabilities Generates individually tailored financial statements, as well as departmental and combined financial statements. Reports include general ledger, statement of income, balance sheet, trial balance, loan amortization schedules, comparative financial statements, statement of changes in financial position, and W-2 forms.

Description R&B Client Programmed Accounting is a complete interactive, menu-driven client write-up system. Designed to operate on any CP/M microcomputer or on the Northstar Horizon and Advantage machines, the system is user friendly and can be used by data processors or first-time users. It has been selected by Monroe Systems for Business for the Monroe OC8820 microcomputer system.

Compatibility Matrix: 215.0025.004
Features Matrix: 215.0030.004

R&B COMPUTER SYSTEMS

1806 Hwy 35
PO Box 2293
Ocean City NJ 07712

(800) 631-2179
(201) 531-2300

► R&B Medical/Dental Billing

A medical and dental accounting system

Price \$2,995 purchase

Environment Computers: Northstar Advantage, microcomputers under CP/M. Main storage: 64K bytes. Source language: CBASIC.

Capabilities Handles multiple doctors, multiple insurance coverage per patient, and storage of inactive patient history. Prepares any type of insurance form, and produces mailing labels and timely billing on user-designed forms. Prepares various practice analysis reports and provides accurate tracking and aging of accounts receivable. Customized medical reporting available.

Description The R&B Medical/Dental Billing system is offered as a complete turnkey system for menu-driven medical/dental accounting.

Compatibility Matrix: 215.0025.004
Features Matrix: 215.0030.004

SBCC AND ELCO SYSTEMS

13562 Sussex Pl
Santa Ana CA 92705

(714) 731-4558

► Professional Job Accounting and Control System (PJACS)

A professional-organization management system

Price \$995 purchase

Environment Computers: Apple II+, IIe. Main storage: 48K bytes. Source language: Applesoft BASIC.

Capabilities Tracks budget and actual hours, labor cost, expenses, and amounts billable, billed, and received. Supports up to 300 projects or phases, 200 employees, and 250 services.

Description PJACS supports the operations of professional organizations. It records and tracks costs; accounts for amounts billed and received by client or project, phase, task, employee, or partner; and outputs results in staff-time and expenses. Suited to architects, engineers, attorneys, and consultants, the program provides a set of 38 functions that track staff-time, expenses, and costs, including project-by-phase analysis and contract updates.

Compatibility Matrix: 215.0025.004
Features Matrix: 215.0030.004

SINGLE SOURCE SOLUTION

2637 Pleasant Hill Rd
Pleasant Hill CA 94523

(415) 680-0202

► FINANCIAL PACKAGE FOR SERVICE STATIONS (FPSS)

A financial and bookkeeping system for retail service stations

Price \$349 purchase

Environment Computers: Tandy TRS-80 Model III. Main storage: not specified. Source language: Microsoft BASIC.

Capabilities Tracks sales, purchases, charges, and collections of service stations. Generates daily, weekly, monthly, or annual reports. Determines gasoline leakage.

Description FPSS is a menu-driven set of programs that provides specialized accounting modules for service station owners. It monitors inventories of accessories, parts, oil, tires, batteries, and gasoline. A 90-page user manual is included with FPSS.

Compatibility Matrix: 215.0025.005
Features Matrix: 215.0030.005



SINGLE SOURCE SOLUTION2637 Pleasant Hill Rd
Pleasant Hill CA 94523

(415) 680-0202

► Rental Inventory Management System (RIMS)

A business system for time rental businesses

Price \$395 purchase**Environment** Computers: Tandy TRS-80 Model III. Main storage: not specified. Source language: not specified.**Capabilities** Tracks items in the time rental inventory. Maintains performance and income records. Enables the computer to operate as a cash register. Performs error checking.**Description** RIMS tracks rental inventory and allows interactive inquiry into current item status. Invoices, including amount due and deposit to be refunded, are generated automatically. RIMS produces combined statements for term rental customers. Rental income, expenses, and cash flow are all reported on a daily, monthly, and yearly basis.**Compatibility Matrix:** 215.0025.005
Features Matrix: 215.0030.005

SINGLE SOURCE SOLUTION2637 Pleasant Hill Rd
Pleasant Hill CA 94523

(415) 680-0202

► STUDENT RECORD SYSTEM

A file management system for students and grades

Price \$89 purchase**Environment** Computers: any microcomputer based on the Intel 8080 or 8085 or Zilog Z80 microprocessors and running under CP/M or UCSD p-System operating systems. Main storage: 48K bytes (can be configured to work on 32K bytes). Source language: not specified.**Capabilities** Calculates the mean and standard deviation for each graded assignment. Sorts grades for up to 10 assignments.**Description** STUDENT RECORD SYSTEM has menu-selectable functions that enable instructors to track 10 separate grades for up to 100 students. The system reports class averages and division points for grading curves.**Compatibility Matrix:** 215.0025.005
Features Matrix: 215.0030.005

SMALL BUSINESS SYSTEMS GROUP6 Carlisle Rd
Westford MA 01886

(617) 692-3800

► Telset

A computer typesetting package

Price \$950 purchase**Environment** Computers: Tandy TRS-80 Model III. Main storage: 48K bytes. Source language: Assembly, BASIC.**Capabilities** Allows user to embed typesetting commands directly in text. Appends control tables to text before transmission to typesetter. Transmits to typesetter at 300 to 1,200 bits per second.**Description** Telset allows the user to enter text (including embedded typesetting commands) and send it via telephone lines to a computer at the typesetter's location. This computer collects and stores the text for subsequent processing on a typesetter.**Compatibility Matrix:** 215.0025.005
Features Matrix: 215.0030.005

SOFTWARE HOWS402 N Larchmont
Los Angeles CA 90004

(213) 871-1350

► MicroDent

A dental office system

Price \$2,200 purchase**Environment** Computers: any microcomputer running under CP/M, MP/M-86, TurboDOS, Mmmost, or Nstar DOS. Main storage: 56K bytes. Source language: CBASIC.**Capabilities** Automatic billing for any patient load. Handles practices with up to 20 dentists. Accepts all insurance forms. Keeps track of referring dentists. Maintains place of service codes. Multiple and preauthorization insurance coverage.**Description** MicroDent is a dental office management system that provides client and dentist accounting and reporting. It supplies the Exclusive Formulater format system, which provides users with a variety of client billing formats. Reports generated by the system detail such analysis as profitability, full transaction and treatment data, appointment recall with reminders, cumulative client-service totals by dentist, and a complete patient mailing list.**Compatibility Matrix:** 215.0025.005
Features Matrix: 215.0030.005

SOFTWARE HOWS402 N Larchmont
Los Angeles CA 90004

(213) 871-1350

► MicroMed

A medical office system

Price \$2,200 purchase**Environment** Computers: any running under CP/M. Main storage: not specified. Source language: not specified.**Capabilities** Automatic billing for any patient load. Handles practices with up to 20 doctors. Provides custom statements through the Exclusive Formulator format system. Accepts all insurance forms and provides multiple insurance coverage.**Description** MicroMed handles all aspects of a physician's office, from billing to patient records to complex insurance forms. The system keeps track of referring doctors, maintains hospital and lab codes, advises staff with appointment recall with reminders, provides instant access to patient records and full transaction and treatment details, and analyzes profitability. In addition, it tracks client-service cumulative totals by doctor and provides automatic statements with aging and accrued finance charges.**Compatibility Matrix:** 215.0025.005**Features Matrix:** 215.0030.005

quarterly patient activity, patient and insurance aged accounts receivable, and activity analysis by doctor, including a report on lab fees. In addition, reports on diagnosis, procedures, drugs, labs, insurance companies, and doctors for each office are produced.

Compatibility Matrix: 215.0025.005**Features Matrix:** 215.0030.005

SPECTRA/SOFTPO Box 277
Chandler AZ 85224

(602) 963-6380

► Comprehensive Medical Management of the Apple (COMMA)

A management system for medical offices

Price \$1,495 purchase (diskette), \$1,995 purchase (disk)**Environment** Computers: Apple II+, IIe with a Vindex 80-column board. Main storage: 48K bytes. Source language: Applesoft BASIC.**Capabilities** Accounts receivable. Monthly statements. Insurance billing. Practice management reports. Patient reminders.**Description** Physicians can use COMMA to computerize their practices. The documentation is user oriented and the programs are easy to operate.**Compatibility Matrix:** 215.0025.005**Features Matrix:** 215.0030.005

SOFTWARE PRODUCTS INTERNATIONAL10240 Sorrento Valley Rd
San Diego CA 92121

(619) 450-1526

► MedAccount

A medical billing system for numerous microcomputers

Price \$2,500 purchase**Environment** Computers: IBM Personal Computer running under UCSD p-System (included with MedAccount). Main storage: 128K bytes. Source language: Pascal.**Capabilities** Supports as many offices as required, with an unlimited number of doctors in each office. Prints on-the-spot bills for one patient at a time. Allows online addition, deletion, or scanning and update of patient data, using the patient's name, number, or social security number. Allows at-any-time adjustment of patient treatment, charges, and payment records. Can support two insurance companies per patient.**Description** MedAccount is a patient billing and reporting system that provides patient files comprising historic, diagnostic, treatment, charges-owed, and method-of-payment data. It allows complete billing that can be run as often as required for insurance-company reporting, private-party billing, or one-patient-at-a-time processing. Reports generated by the system detail daily activity by doctor, patient lists, monthly patient activity,

STARSOFT

Rte 11
Box 412
Rock Hill SC 29730

(803) 328-3103

► CPApartner

A client write-up and billing program

Price \$475 purchase

Environment Computers: Apple II, II+. Main storage: 48K bytes. Source language: not specified.

Capabilities Integrates client accounting and billing. Generates audit trail. Maintains chart of accounts with budgets. Month-to-date, year-to-date comparatives and budgeting analysis. Maintains up to 65 clients per disk. Reports include income statements, balance sheets, and source and use of funds.

Description CPApartner is a CPA support program developed to generate client billing and revenue analysis, create monthly customer statements, age client receivables, and analyze operations by employees, skill level, and job type. It can handle up to 1,000 monthly journal entries per client, maintain 13 months of data for comparative analysis, and keep track of up to 300 general ledger accounts and 99 departments. System output includes a trial balance in summary or in detail, journal reports for all transactions sorted by date or reference number, budget variance reports—for the current month or any of the previous months—that compare actual and budgeted amounts, and a complete client mailing list that selects and sorts by processing schedule. The billing subsystem is available separately.

Compatibility Matrix: 215.0025.005
Features Matrix: 215.0030.005

STARSOFT

Rte 11
Box 412
Rock Hill SC 29730

(803) 328-3103

► PROpartner

A professional time management and billing system

Price \$300 purchase

Environment Computers: Apple II, II+, III. Main storage: 128K bytes. Source language: not specified.

Capabilities Tracks up to 500 clients. Menu driven. Prints client billing statements in a summary or detail format. Generates revenue analysis.

Description PROpartner aids lawyers, consultants, architects, and CPAs with time management and client billing. The system can maintain up to 200 billing codes or charge numbers, track up to 500 clients, and support up to 30 employees or skill levels. Reports generated detail billing by client, employee, and billing code; provide summaries for accounts receivable, in-progress charges, hourly charges, and employees; and summarize employee utilization by month and year to date. In

addition, PROpartner prints client mailing labels and provides a mailing list that selects and sorts by processing schedule.

Compatibility Matrix: 215.0025.005
Features Matrix: 215.0030.005

SYSTEM INTEGRATION ASSOCIATES

Suite L-13, Great Valley Ctr
81 Lancaster Ave
Malvern PA 19355

(215) 296-7420

► Client Accounting/Management System

A multiterminal client accounting and management system for the law profession

Price \$8,500–\$19,000 purchase

Environment Computers: Zilog Z80-based microcomputers running under SIA-3500. Main storage: 48K bytes. Source language: BASIC.

Capabilities Provides alphabetic name lookup. Controls cash and noncash disbursements. Provides an integrated general ledger system.

Description Client Accounting/Management System supplies computer-based management for legal offices. It provides alphabetic name lookup, maintains a client data base, and controls cash and noncash disbursements. Additional system features include client receivable processing and billing.

Compatibility Matrix: 215.0025.005
Features Matrix: 215.0030.005

SYSTEM INTEGRATION ASSOCIATES

Suite L-13, Great Valley Ctr
81 Lancaster Ave
Malvern PA 19355

(215) 296-7420

► Dental System

A multiterminal management system for dental and medical practices

Price \$5,000–\$12,000 purchase

Environment Computers: Zilog Z80-based microcomputers running under SIA-3500. Main storage: 48K bytes. Source language: BASIC.

Capabilities Provides an integrated accounting package with general ledger, balance sheet, profit-and-loss statements, and budget analysis. An integrated payroll system computes state, local, and federal taxes.

Description Dental System is a multiterminal dental/medical system with patient receivable processing, accounting, insurance processing, and appointment scheduling. Additional features include name lookup by shortened patient name, a family-based record structure, and custom letter generation.

Compatibility Matrix: 215.0025.005
Features Matrix: 215.0030.005

SYSTEMS PLUS

1120 San Antonio Rd
Palo Alto CA 94303

(415) 969-7047

► Medical Manager

A medical office management system

Price Vendor declined to provide

Environment Computers: any microcomputer running under CP/M, CP/M-86, MP/M, MP/M-86, or MS-DOS. Main storage: 64K bytes. Source language: CBASIC-80.

Capabilities Supports multiple-doctor practices. Handles third-party insurance billing. Determines which charges belong on which form. Ages receivables by patient, doctor, insurance company, or practice. Automatically posts to general ledger with user-defined closing dates. Multilevel password protection. Patient recall interfaces to various WP programs. User-defined report generator.

Description Medical Manager provides updated information on patient treatments, insurance coverage, and payment history. The accounting analysis capability generates detailed aged accounts receivable reports that include various patient billing procedures, including split insurance, balance forward, open item, and time of service. Patient and accounting records are maintained under a B-Tree ISAM file handler, allowing instant access to records.

The Office Management option allows Medical Manager to maintain five categories of patient medical histories:

- Hospital Rounds—Keeps track of patient name, date of admission, hospital name, and primary diagnosis
- Clinical History—Maintains up to nine separate user-defined data bases, allowing users to access individual patient records or generate summary reports on diagnoses, prescriptions, complications, or allergies
- Procedure and Diagnosis History—Records individual patient histories
- Frequency and Revenue Reporting—Uses the data base maintained by the Procedure and Diagnosis History module to allow the user to monitor the financial condition of a practice.
- Appointments Management/Recall—Offers sophisticated automated appointment scheduling for single- or multiple-physician practices.

Compatibility Matrix: 215.0025.005
Features Matrix: 215.0030.005

TCS SOFTWARE INC

3209 Fondren Rd
Houston TX 77063

(713) 977-7505

► Client Ledger System

A client ledger system

Price \$2,000 purchase

Environment Computers: microcomputers running under CP/M or MS-DOS. Main storage: 48K bytes. Source language: Microsoft BASIC.

Capabilities Sets up master charts of accounts for particular client. Prepares monthly, quarterly, and year-end balance sheets. Provides transaction register, payroll journal, cash disbursements statement, and financial-position-changes statement.

Description The Client Ledger System sets up a master chart of accounts for each client. It includes the functions needed to prepare monthly, quarterly, and year-end balance sheets, trial balances, and profit-and-loss statements from client data. The system provides a complete transaction register, a payroll journal, a cash-disbursements statement, and a financial-position-changes statement. The Client Ledger System lets the user prepare quarterly or year-end state and federal payroll tax reports, including W-2s. The program computes state withholding taxes, unemployment taxes, and the employer's share of FICA. Amortization and depreciation schedules are prepared as the necessary data is entered. The system maintains data for each period separately. Up to 199 periods can be specified for each client's general ledger. From the data, the system can generate subsidiary reports of cash flow and financial-position change to accompany the balance sheet.

Compatibility Matrix: 215.0025.005
Features Matrix: 215.0030.005

THOMAN SOFTWARE CORP (TSC)

1821 Summit Rd
Suite 107
Cincinnati OH 45237

(513) 948-8700

► Survey Construction Administration and Tabulation (SCAT)

An interviewing and tabulation system

Price \$1,500 purchase

Environment Computers: Zenith Z89 and Z90, Digital Equipment Rainbow 100, and Morrow Microdecision. Main storage: 64K bytes. Source language: not specified.

Capabilities Defines, creates, and updates questionnaires. Administers questionnaire data on CRT. Tabulates results. Provides cross-tabulated reports.

Description SCAT is an interactive interviewing and tabulation program for market research and political polling. The program consists of questionnaire-definition, creation, update, administration, and results-tabulating modules. SCAT reviews the questionnaire according to its description and generates results reports.

Compatibility Matrix: 215.0025.005
Features Matrix: 215.0030.005



TMS/MSC

2155 S 3270 West
Salt Lake City UT 84119

(801) 973-5800

► Pro-Claim

An automated insurance claims and patient-billing system

Price \$8,000 purchase (software and hardware)

Environment Computers: Apple II. Main storage: 48K bytes. Source language: Applesoft BASIC.

Capabilities Speeds insurance claim processing for the one- or two-doctor office, thereby improving cash flow. Processes and sends claims to insurance companies. Prints mailing labels.

Description Pro-Claim provides a completely automated patient-billing system for the preparation of claims and monthly statements. Insurance claim data is collected on the Apple II during office hours and, during the evening hours, it is automatically transmitted over phone lines to the TMS/MSC data center. From there, it is processed and sent to the appropriate insurance companies.

Compatibility Matrix: 215.0025.005
Features Matrix: 215.0030.005

TRAC LINE SOFTWARE

51 Alpha Plaza
Hicksville NY 11801

(516) 935-7508

► S-TRAC

A service-contract accounting system for OASIS-based microcomputers

Price \$4,600 purchase

Environment Computers: any OASIS-based microcomputer. Main storage: 64K bytes. Source language: OASIS BASIC.

Capabilities Job costing. Invoicing. General ledger accounting. Inventory control. Cash-flow tracking.

Description S-TRAC is a fully integrated multiuser small-business system for service contractors providing residential and commercial installation and maintenance functions. Activities supported by the system include job-cost tracking, rental and service invoicing, rental notices, accounts payable and receivable, warehouse and truck inventory control, cash-flow analysis, and general ledger reporting.

Compatibility Matrix: 215.0025.005
Features Matrix: 215.0030.005

TRINITY COMPUTING SYSTEMS

1020 Holcombe Blvd
Houston TX 77030

(713) 790-1895

► Cath Lab Support System

A clinical data analysis package for heart catheterization laboratories

Price Less than \$30,000 purchase

Environment Computers: IBM Personal Computer; Apple II+, IIe. Main storage: 10M bytes. Source language: BASIC.

Capabilities Prints reports, including patient's chart. Calculates cardiac output by Fick, Thermal Dilution, or Indicator Dilution methods. Calculates flow resistances, valvular areas, pressure gradients.

Description The Cath Lab Support System obtains and reports diagnostic information, assists with laboratory administration, and helps preserve the quality of film and equipment. After doctors perform catheterization, they trace the systolic and diastolic areas and wall cross sections from the patient's film. The information is graphed on a digitizing tablet, and the computer performs the calculations.

Compatibility Matrix: 215.0025.005
Features Matrix: 215.0030.005

TRINITY COMPUTING SYSTEMS

1020 Holcombe Blvd
Houston TX 77030

(713) 790-1895

► CCU Support System

A data management package for critical care units (CCUs)

Price Less than \$30,000 purchase

Environment Computers: IBM Personal Computer. Main storage: 10M bytes. Source language: BASIC.

Capabilities Supports up to 15 patients. Measures systemic and pulmonary vascular resistance. Biventricular analysis of cardiac failure. Evaluates oxygen uptake and delivery, pulmonary shunt, and caloric and metabolic expenditure. Analyzes body water content, extracellular content, serum osmolality, and blood volume. Analyzes stress test results.

Description CCU Support System uses monitor- and lab-produced data to provide a condensed evaluation of the patient's condition. After data analysis, the package reports trends in the condition.

The package evaluates cardiovascular, respiratory, fluid balance, and renal parameters. It helps evaluate the severity of a patient's heart disease by performing a probability analysis of diagnostic factors. In addition, the package provides administrative functions for use in the hospital, clinic, or office.

Compatibility Matrix: 215.0025.005
Features Matrix: 215.0030.005

TRINITY COMPUTER SYSTEMS

1020 Holcombe Blvd
Houston TX 77030

(713) 790-1895

► Echocardiography Support System

An echocardiography analysis package

Price Less than \$30,000 purchase

Environment Computers: IBM Personal Computer, Apple II+ and IIe. Main storage: 10M bytes. Source language: BASIC.

Capabilities Optional capability to average many trials for each measurement. Reviews qualitative diagnostic possibilities. Performs regional wall motion analysis. Estimates functional infarct size.

Description Echocardiography Support System measures, analyzes, and reports M-mode and two-dimensional echocardiogram data. Users perform M-mode analysis alone or in tandem with two-dimensional analysis. Using a digitizing tablet and magnetic pen, the user can analyze the echocardiogram by indicating pairs of points that correspond with distance, slope, and interval measurements. From images replayed on a video-cassette recorder, the two-dimensional analysis measures volumes and ejection fractions by up to 10 different methods; the analysis also measures distance and area.

Compatibility Matrix: 215.0025.005
Features Matrix: 215.0030.005

TRINITY COMPUTER SYSTEMS

1020 Holcombe Blvd
Houston TX 77030

(713) 790-1895

► Pacemaker Followup System

A patient management package

Price Less than \$15,000 purchase

Environment Computers: IBM Personal Computer. Main storage: 10M bytes. Source language: BASIC.

Capabilities Tracks both dual- and single-chamber pacemakers. Tracks recipients of specified models. Maintains model and serial numbers on all components, purchase order numbers on sold units, and patient information.

Description The Pacemaker Followup System provides continuity of patient care and pacemaker maintenance. The pacemaker ID file serves as a technical manual for all systems in inventory. Staff can search the file for information on a particular pacemaker. The pacemaker patient file allows doctors to evaluate a patient's lead, generator, and initial settings. The pacemaker inventory file tracks the generators and leads that the hospital keeps in stock.

Compatibility Matrix: 215.0025.005
Features Matrix: 215.0030.005

TRINITY COMPUTING SYSTEMS

1020 Holcombe Blvd
Houston TX 77030

(713) 790-1895

► Radiology Support Network

An administration system for hospital radiology departments

Price \$100,000-\$250,000 purchase

Environment Computers: IBM Personal Computer. Main storage: not specified. Source language: C.

Capabilities Handles up to 255 microcomputers. Workstations can be located up to four miles from the central file server or connected remotely by telephone and modem. Bar-code reader. Password security.

Description Radiology Support Network accesses patient records and controls film transfers and loans. It prepares radiologist-transcribed reports. Optional modules are available for patient registration, scheduling, patient tracking, accounting and billing, teaching and research, and quality control.

Compatibility Matrix: 215.0025.005
Features Matrix: 215.0030.005

UNIQUE INFORMATION SYSTEMS

221 N LaSalle St
Suite 1320
Chicago IL 60601

(312) 332-2820

► HOTEL-2000

A hotel management system for small and medium-sized hotels

Price \$3,950-\$9,990 purchase

Environment Computers: any running under CP/M or MP/M. Main storage: 64K bytes. Source language: MBASIC.

Capabilities A user-friendly system that requires no previous computer experience. A series of menus and messages prompt and guide the user, step by step.

Description HOTEL-2000 is a hotel management system designed for small and medium-sized hotels. Modular in design, the system integrates reservations, reception, and billing activities. Each module may be purchased separately and added when required.

Compatibility Matrix: 215.0025.005
Features Matrix: 215.0030.005

VISICORP

2895 Zanker Rd
San Jose CA 95134

(408) 946-9000

► VisiDex

A personal information and calendar manager

Price \$250 purchase

Environment Computers: Apple II, II+, IIe. Main storage: 48K bytes. Source language: Assembly.

Capabilities Cross-reference by keywords. Custom-formatted screens. Information retrieval by keyword or non-keyword. Organizes personal schedules, data, and time.

Description VisiDex provides a system that organizes and manages an individual's information and time. It allows the user to file names, addresses, new ideas, important numbers and dates, tax and stock records, and other personal data. In addition, the system creates a daily calendar that keeps track of upcoming events.

Compatibility Matrix: 215.0025.005

Features Matrix: 215.0030.005

WPL ASSOCIATES INC

1105 Spring St
Suite F9
Silver Spring MD 20910

(301) 589-8588

► Publiphile

A subscription management program for small publishing firms

Price \$2,450 purchase

Environment Computers: IBM Personal Computer, any CP/M-based system. Main storage: 48K bytes. Source language: BASIC.

Capabilities Provides subscriber mailing labels in a variety of formats. Also provides separate billing addresses, purchase orders, credit card orders, "bill-me" orders, bad credit names, special offers, and advance and multiple renewals. Online verification of subscriber data, hard-copy output for circulation summaries, renewal analysis, and financials. Customized report generation.

Description Publiphile is available as a complete turnkey system with full-function word processing and electronic-publishing-service interface or as a stand-alone software system.

Compatibility Matrix: 215.0025.005

Features Matrix: 215.0030.005

ENGINEERING/SCIENTIFIC Compatibility Matrix

216.0025.001

Vendor/Package	Compatible Operating Systems																	Others		
	Apple DOS	Concurrent CP/M	CP/M	CP/M Plus	CP/M-80	CP/M-86	FORTH	IBM PC DOS	Jobstream CP/M	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	UNI-DOL		Unix	Xenix
Advanced Structural Technology SAP-2D																				HP Series 80
Afterthought Engineering Wiremaster			•					•										•		
Algor Interactive Systems ABEAM								•										•		
Alphanetics Civil Engineering Pac								•				•								
Anatrol Acoustic Intensity Measurement System (AIMS)																				HP Series 80
Model Analysis and Data Management (MADAM)																				HP Series 80
Spectrum Mapping System (SMAP)																				HP Series 80
Antech COPE								•												
AREA EWIT (Energy What If Tool)								•				•								
Ariel RTA-331								•												
Binkley Software ROUTE—Runoff Detention Basin																				HP Series 80
C & G Software Systems SURVEY SYSTEM 1.1			•					•						•						Valdocs
Celestial Software IMAGES-2D								•				•								
COADE E-PAC1								•				•								
ECONOMICS4								•				•								
FRAME2D								•				•								
MicroSHELL								•				•								
SAMPLE								•				•								
SCDIST								•				•								
SGAP								•				•								
SIGMA1								•				•								
THERMOGEN								•				•								
TRANS5								•				•								
Two/Three Phase Distillation (2 3 P)								•				•								
Disco-Tech BEAM-1			•			•		•		•	•	•								TurboDOS
CoGo-Survey 80			•			•		•		•	•	•								TurboDOS
FINDeR-Survey 80			•			•		•		•	•	•								TurboDOS
FRAME 80			•			•		•		•	•	•								TurboDOS
HCS (Horizontal Curve Staking)								•												
MapCheck—Parcel Perimeter and Area Check								•												
Plotter—Survey 80			•			•		•		•	•	•								TurboDOS
Stadia			•			•		•		•	•	•								TurboDOS
VertiCurve			•			•		•		•	•	•								TurboDOS
WATNET (Water Network Analysis)			•			•		•		•	•	•								TurboDOS
DYNACOMP Active Circuit Analysis Program (ACAP)								•												
BEAM DEFLECTION								•				•								
DIGITAL FILTER								•				•								
HARMONIC ANALYZER								•				•								

Vendor/Package	Compatible Operating Systems																	Others		
	Apple DOS	Concurrent CP/M	CP/M	CP/M Plus	CP/M-80	CP/M-86	FORTH	IBM PC DOS	Jobstream CP/M	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	UNI-DOL		Unix	Xenix
Microcomputer Circuit Analysis Program (MICRO-CAP)								•												
Microcomputer Logic Design Program (MICRO-LOGIC)								•												
ROOTS								•				•								
Transfer Function Analyzer (TFA)								•				•								
ECOM Associates																				
Bolted Framed Beam Connection																				HP Series 80
Composite Steel Beam Design																				HP Series 80
Concrete Column Design	•							•				•								HP Series 80
Dynamic Load Analysis																				HP Series 80
Flat Slab Analysis and Design	•							•				•								HP Series 80
General Section Properties																				HP Series 80
Re-Run Data Storage																				HP Series 80
Shear Wall Analysis																				HP Series 80
Snow Load Analysis																				HP Series 80
Steel Beam Design	•							•				•								HP Series 80
Steel Column and Base Plate Design	•							•				•								HP Series 80
Stepped Column Analysis																				HP Series 80
Structural Engineering Programs	•		•					•							•					HP Series 80 and 100
85/CD-1 Reinforced Concrete Beam Design																				HP Series 80
85/CD-2 Reinforced Concrete Column Design																				HP Series 80
85/CD-3 Flat Slab Analysis and Design																				HP Series 80
85/FA-3 Plan Frame and Truss Analysis																				HP Series 80
85/SD-1 Steel Beam Design																				HP Series 80
85/SD-2 Steel Column Design																				HP Series 80
Ecosoft																				
Microstat			•																	
Electrocon International																				
Electrocon IBM PC Power Flow Program								•				•								
Elite Software Development																				
Building Energy Analysis			•					•												
Commercial Cooling & Heating Loads			•					•												
Lighting Fixture Calculation Program			•					•												
S-PIPE (Service Supply Pipe Sizing)			•					•												
Short Circuit Calculation Program			•					•												
U-Factor Calculation Program			•					•												
Energy																				
BETH								•												
Entek Scientific																				
Entek Mapping System (EMAP)																				HP Series 80
Entek Modal Analysis (EMODAL)																				HP Series 80
Entek Programmable Spectrum Analyzer (EPRAN)																				HP Series 80
Entek Sound Intensity Measurement (ESIM)																				HP Series 80

Vendor/Package	Compatible Operating Systems																Others		
	Apple DOS	Concurrent CP/M	CP/M	CP/M Plus	CP/M-80	CP/M-86	FORTH	IBM PC DOS	Jobstream CP/M	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System		UNI-DOL	Unix
First Principles Software																			
HYDROL		
P + M		
RWALL		
TBACK		
TRSFLOW		
Gallie Computer																			
UNITS! UNITS! UNITS								.											
Geostat Systems International												.							
COMPOSITE								.											
Golden State Business Systems																			
SERCAL			.																HP Series 80
Graphic Software Systems																			
GSS-KERNAL																			FORTRAN
GSS-PLOT																			FORTRAN
GSS-4010																			FORTRAN
Hewlett-Packard																			
Graphics Presentations																			HP Series 80
Application Pac																			
Graphics Presentations Pac																			HP Series 80
Surveying Application Pac																			HP Series 80
Waveform Analysis Application																			HP Series 80
Pac																			
HYDRASOFT																			
HYDRAL								.											
Institute of Industrial Engineers																			
Production Control	.							.							.				
Kelix Software Systems																			
Chemical Engineering Pac 1																			HP Series 80
Multicomponent Distillation																			HP Series 80
Adiabatic Flash Calculation																			HP Series 80
Dew Point and Bubble Point Calculations																			HP Series 80
Equations of State																			HP Series 80
Flow Network Analysis																			HP Series 80
Fluid Flow Analysis																			HP Series 80
Isothermal Flash Calculation																			HP Series 80
McCabe-Thiele Analysis																			HP Series 80
Packed Column Analysis																			HP Series 80
Simultaneous Non-Linear Equations																			HP Series 80
Land Innovation																			
CivilSoft																			HP Series 80
Lifeboat Associates																			
WIREMASTER			.		.														
M. Hudis & Associates																			
BACWAT—Backwater in Prismatic Channels																			HP Series 80
HYDRAU																			HP Series 80
HYDROL																			HP Series 80
LTrans																			HP Series 80
PIPWAT																			HP Series 80
P + MCUL																			HP Series 80
P + MGEN																			HP Series 80
R-WALL																			HP Series 80
M.P.S.																			
Earthwork, Coordinate Geometry and Ditch Hydraulics	.																		

Vendor/Package	Compatible Operating Systems																	Others		
	Apple DOS	Concurrent CP/M	CP/M	CP/M Plus	CP/M-80	CP/M-86	FORTH	IBM PC DOS	Jobstream CP/M	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	UNI-DOL		Unix	Xenix
Metcut Research Associates CUTDATA								•												DOS, ASP
On-Line Instrument Systems OLIS 3820 "SPECTRO"			•																	HP Series 80
PacSoft Contour Mapping																				HP Series 80
Earthwork																				HP Series 80
Profiles & Cross Sections																				HP Series 80
Topography																				HP Series 80
3-D Projections																				HP Series 80
Parametrics Analysis and Design of Digital Filters and Discrete-Time Systems																				HP Series 80
Linear System Analysis and Feedback Compensator Design																				HP Series 80
Physical Sciences FCPAK				•				•								•				
FLUIDPAK				•				•								•				
HXDESIGN								•												
REACTORPAK				•				•								•				
THERMOPAK				•				•								•				
THERMO3				•				•												
Process Systems International FLASHCALC 1.00			•					•												
R&L Software Data Evaluation Program for the HP85 (DAEP 85)																				HP Series 80
REMEX Radius of Curvature Well Survey Program																				HP Series 80
Sinclair Optics OSLO-85																				HP Series 80
Software Systems COGEN								•				•								
COMBUSTION								•				•								
FLUIDFLO								•				•								
STEAMCALC								•				•								
Spectrum Software MICRO-CAP	•							•												
MICRO-LOGIC	•							•												
Sun Valley Systems Surveyors System	•		•					•				•				•				
Tandy Chemistry Simulations/Color Chemistry Simulations																•				
Tensegrity NICOLET/85																				HP Series 80
Threshold Software SERCAL																				HP Series 80
Unique Information Systems MICROSTRAN				•																
Universal Technical Systems Spur and Helical Gear Analysis								•												
Westico ELECTRONIC CIRCUIT ANALYSIS (ECA)			•			•		•				•								

ENGINEERING/SCIENTIFIC

Features Matrix

216.0030.001

Vendor/Package	System Capabilities									
	Chemical Engineering	Data Mangement	Electrical Engineering	Graphics/Plotting	Hydraulics/Fluid Dynamics	Mechanical/Structural Design	Optics/Acoustics	Spectral Analysis	Statistical Analysis	Surveying
Advanced Structural Technology SAP-2D										
Afterthought Engineering Wiremaster										
Algor Interactive Systems ABEAM										
Alphanetics Civil Engineering Pac										
Anatrol Acoustic Intensity Measurement System (AIMS) Model Analysis and Data Management (MADAM) Spectrum Mapping System (SMAP)										
Antech COPE										
AREA EWIT (Energy What If Tool)										
Ariel Corp RTA-331										
Binkley Software ROUTE—Runoff Detention Basin										
C & G Software Systems SURVEY SYSTEM 1.1										
Celestial Software IMAGES-2D										
COADE E-PAC1 ECONOMICS4 FRAME2D MicroSHELL SAMPLE SCDIST SGAP SIGMA1 THERMOGEN TRANS5 Two/Three Phase Distillation (2 3 P)										
Disco-Tech BEAM-1 CoGo-Survey 80 FINDeR-Survey 80 FRAME 80 HCS (Horizontal Curve Staking) MapCheck—Parcel Perimeter and Area Check Plotter—Survey 80 Stadia VertiCurve WATNET (Water Network Analysis)										
DYNACOMP Active Circuit Analysis Program (ACAP) BEAM DEFLECTION DIGITAL FILTER HARMONIC ANALYZER Microcomputer Circuit Analysis Program (MICRO-CAP) Microcomputer Logic Design Program (MICRO-LOGIC)										

Vendor/Package	System Capabilities									
	Chemical Engineering	Data Mangement	Electrical Engineering	Graphics/Plotting	Hydraulics/Fluid Dynamics	Mechanical/Structural Design	Optics/Acoustics	Spectral Analysis	Statistical Analysis	Surveying
ROOTS Transfer Function Analyzer (TFA)	•		•		•	•	•	•		•
Ecom Associates Bolted Framed Beam Connection Composite Steel Beam Design Concrete Column Design Dynamic Load Analysis Flat Slab Analysis and Design General Section Properties Re-Run Data Storage Shear Wall Analysis Snow Load Analysis Steel Beam Design Steel Column and Base Plate Design Stepped Column Analysis Structural Engineering Programs 85/CD-1 Reinforced Concrete Beam Design 85/CD-2 Reinforced Concrete Column Design 85/CD-3 Flat Slab Analysis and Design 85/FA-3 Plan Frame and Truss Analysis 85/SD-1 Steel Beam Design 85/SD-2 Steel Column Design		•			•	•	•	•		
Ecosoft Microstat		•				•		•		
Electrocon International Electrocon IBM PC Power Flow Program			•			•				
Elite Software Development Building Energy Analysis Commercial Cooling & Heating Loads Lighting Fixture Calculation Program S-PIPE (Service Supply Pipe Sizing) Short Circuit Calculation Program U-Factor Calculation Program			•	•	•	•				
Energy BETH				•	•	•		•		
Entek Scientific Entek Mapping System (EMAP) Entek Modal Analysis (EMODAL) Entek Programmable Spectrum Analyzer (EPRAN) Entek Sound Intensity Measurement (ESIM)				•	•	•		•	•	
First Principles Software HYDROL P + M RWALL TBACK TRFLOW		•		•	•	•				
Gallie Computer UNITS! UNITS! UNITS!		•			•					
Geostat Systems International COMPOSITE						•				
Golden State Business Systems SERCAL			•							

Vendor/Package	System Capabilities									
	Chemical Engineering	Data Management	Electrical Engineering	Graphics/Plotting	Hydraulics/Fluid Dynamics	Mechanical/Structural Design	Optics/Acoustics	Spectral Analysis	Statistical Analysis	Surveying
Graphic Software Systems GSS-KERNAL GSS-PLOT GSS-4010				•	•					
Hewlett-Packard Graphics Presentations Application Pac Graphics Presentations Pac Surveying Application Pac Waveform Analysis Application Pac				•	•				•	•
HYDRASOFT HYDRAL					•					
Institute of Industrial Engineers Production Control		•								
Kelix Software Systems Chemical Engineering Pac 1 Multicomponent Distillation Adiabatic Flash Calculation Dew Point and Bubble Point Calculations Equations of State Flow Network Analysis Fluid Flow Analysis Isothermal Flash Calculation McCabe-Thiele Analysis Packed Column Analysis Simultaneous Non-Linear Equations	•	•	•	•	•	•	•			
Land Innovation CivilSoft					•	•				•
Lifeboat Associates WIREMASTER			•							
M. Hudis & Associates BACWAT—backwater in prismatic channels HYDRAU HYDROL LTrans PIPWAT P + MCUL P + MGEN R-WALL					•	•				
M.P.S. Earthwork, Coordinate Geometry and Ditch Hydraulics					•	•				
Metcut Research Associates CUTDATA		•								
On-Line Instrument Systems OLIS 3820 "SPECTRO"								•		
PacSoft Contour Mapping Earthwork Profiles & Cross Sections Topography 3-D Projections				•		•				
Parametrics Analysis and Design of Digital Filters and Discrete-Time Systems Linear System Analysis and Feedback Compensator Design				•				•	•	

ENGINEERING/SCIENTIFIC

Product Summaries

ADVANCED STRUCTURAL TECHNOLOGY

PO Box 16659
Clayton MO 63105

(314) 725-8282

► SAP-2D

A structural engineering program that performs static analysis

Price \$895 purchase

Environment Computers: Hewlett-Packard HP 85. Main storage: 16K bytes. Source language: not specified.

Capabilities Handles modifications or corrections selectively using edit module. Verifies results automatically by joint-by-joint and global equilibrium checks. Verifies input using graphical plot of geometry. Provides tabular or graphical axial, bending moment, and shear diagrams.

Description SAP-2D is an engineering program that provides static analysis of planar trusses, frames, or grids. It supports straight or curved members, tapered or uniform members, or ground elastic springs and any combination of point forces, torques, running loads, prescribed displacements, or lack-of-fit. Other features include skewed reactions, substructuring via special user-defined member, and storage of input data in a file for later use.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

AFTERTHOUGHT ENGINEERING

7266 Courtney Dr
San Diego CA 92111

(619) 279-2868

► Wiremaster

A computer-aided design program that aids in the design, layout, and construction of electronic components

Price \$195 purchase

Environment Computers: IBM Personal Computer and compatible microcomputers; any microcomputer running under CP/M or UNIX. Main storage: 128K bytes. Source language: C.

Capabilities Personal computer keyboard layout. Error checking. Troubleshooting. Computer-aided design.

Description Wiremaster is an interactive computer-aided design program designed primarily for wire wrap construction techniques. Wiremaster processes input from schematic diagrams, checks it for errors and inconsistencies, and produces numerous outputs as disk files,

which may then be printed on paper, examined on a CRT, or used to drive numerically controlled wire wrap machines.

This resulting information can then be used for layout checking, wiring error detection, component installation, circuit debugging, and parts list generation. Wiremaster outputs, together with the schematic, form a complete and easily updated documentation package for a product.

Wiremaster locates parts within a precision of .001 inch, keeps track of schematic page numbers and includes them in the outputs, and handles twisted pair and shielded wire.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

ALGOR INTERACTIVE SYSTEMS INC

Essex House Suite L1
Essex Sq
Pittsburgh PA 15206

(412) 661-2100

► ABEAM

A civil engineering program that provides automatic access to American Institute of Steel Construction Inc (AISC) beam table data

Price \$535 purchase

Environment Computers: IBM Personal Computer; microcomputers running under UNIX. Main storage: 128K bytes. Source language: FORTRAN.

Capabilities Allows FORTRAN access to beam table data. Lists W, M, S, HP, C, and MC shapes.

Description ABEAM is a series of three program modules designed to access AISC beam table data automatically.

The modules are:

- ASCII data of section properties from the seventh and eighth editions of the AISC manual of steel construction. The following shapes are included: W, M, S, HP, C, and MC. Also included are structural tees for W, M, and S shapes; structural L-shapes, single and double; structural tubing, square and rectangular; and structural pipe. For each section, available properties are area, moments of inertia, radii of gyration, and section moduli.
- A set of FORTRAN subroutines that access requested section properties in response to the input of a code.
- A FORTRAN program to print out the desired data in response to typing in the name of the beam section (e.g., "w14x68").

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

ALPHANETICS

PO Box 339
Forestville CA 95436

(707) 887-7237

► Civil Engineering Pac

An interactive surveying and civil engineering program that performs common surveying calculations involving coordinate geometry, automatic stadia reduction, and traverse operations

Price \$200 purchase

Environment Computers: IBM Personal Computer; microcomputers running under MS-DOS or MS-DOS 2.0. Main storage: 96K bytes. Source language: BASIC

Capabilities Erases and rennumbers points. Lists coordinates of points. Transforms coordinates. Rotates bearings. Performs other common surveying calculations.

Description Civil Engineering Pac is an interactive surveying and civil engineering program designed to perform common surveying calculations in main memory with a minimum of keystrokes. The program stores job data in indexed data files and can plot results on the printer or display results on a terminal screen. Multiple data and job files are supported.

The program can erase and renumber points, list coordinates of points, transform coordinates, rotate bearings, add points by bearing/distance/intersection, and determine points on a circle.

For traverse operations, balancing by Crandall, Compass, or Transit rules is supported.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

ANATROL CORP

Suite 227
11305 Reed Hartman Hwy
Cincinnati OH 45241

(513) 984-5800

► Acoustic Intensity Measurement System (AIMS)

An engineering system that performs acoustic modeling

Price \$7,000-\$12,000 purchase

Environment Computers: Hewlett-Packard HP 85 computer. Main storage: 64K bytes. Source language: not specified.

Capabilities Provides complete environment for performing acoustic modeling of arbitrary noise sources. Supports up to 25 models, consisting of 100 elemental sound sources per model. Outputs intensity, pressure and sound-power spectra, and overall levels. Spectral information is either displayed or plotted with digital plotter.

Description AIMS is an engineering system designed to overcome the expensive and time-consuming problem of identifying and ranking various noise-radiating components of a complex mechanical system. To make acoustic intensity measurements, the system scans defined areas around the various sound sources, while the cross-spectrum averaging operation is being performed by a digital Fourier analyzer. Average acoustic-intensity values are obtained for the defined areas, and sound-power calculations are performed by integrating the average intensity values over the associated areas.

The AIMS software provides the environment for performing acoustic modeling of arbitrary noise sources. The system supports a maximum of 25 models, each consisting of 100 elemental sound sources, on one data tape. Intensity, pressure and sound-power spectra, and overall levels are included in the data output. Spectral information is automatically displayed on the CRT of the spectrum analyzer or plotted with a digital plotter. The surface pattern of intensity or sound power can be plotted as a contour plot, roster plot, or three-dimensional intensity map. Typical applications include internal combustion engines, electrical transformers, gearboxes, transmissions, appliances, piping systems, aircraft interiors, pumps, compressors, and fans.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

ANATROL CORP

Suite 227
11305 Reed Hartman Hwy
Cincinnati OH 45241

(513) 984-5800

► Modal Analysis and Data Management (MADAM)

A general-purpose mechanical engineering system used for data management

Price \$5,000-\$7,500 purchase

Environment Computers: Hewlett-Packard HP 85 computer. Main storage: 64K bytes. Source language: not specified.

Capabilities Provides data management. Stores up to 220 spectra on cassette. Allows data plotting with unlimited number of coordinates per plot. Plot functions. Provides modal parameter management.

Description MADAM is a mechanical engineering system originally developed to overcome the lack of long-term storage on small two-channel spectrum analyzers. The system also includes small-scale modal analysis. It provides cassette function storage of up to 220 spectra, recalling functions with annotation to the CRT, tagging of data with ASCII header, engineering unit calibration, reference transducer locations, and plotting to a digital plotter. Using data, it can plot shapes of variable view angle, deflection amplitude, and size, which are deformed and/or undeformed and have an unlimited number of coordinates per plot. The sys-



tem functions on an x or y axis, and data can be of linear or log type.

Data-only and axes-only plotting options are also provided. Artificial integration/differentiation is available with functions. MADAM also provides real or imaginary coefficients, deflection shapes from operating data, modal damping calculations, mode shape plotting, CRT-cursor identification of reference frequencies, and five modes using 50 points in three directions per file.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

ANATROL CORP

Suite 227
11305 Reed Hartman Hwy
Cincinnati OH 45241 (513) 984-5800

► Spectrum Mapping System (SMAP)

An engineering system that plots variations of measured or analytical functions

Price \$5,000–\$7,000 purchase

Environment Computers: Hewlett-Packard HP 85 computer. Main storage: 64K bytes. Source language: not specified.

Capabilities Samples and calculates the frequency spectrum from one channel. Tags the spectrum with the operating parameter from the second channel. Sorts data base and averages repetitive samples of data for the same third-axis value. Plots results on a three-dimensional contour plot. Provides several features to facilitate machinery diagnostic testing for rotating equipment analyses.

Description SMAP is an engineering system that demonstrates, on a single three-dimensional plot, the variation of measured or analytical functions—such as time and frequency—as a function of some other parameter—such as operating speed, temperature, pressure, flow, voltage, or valve position. In the analytical version, a program loop is provided for a user-defined single-valued function (Y) to be calculated and varied with the X and Z axis values. In the measurement version, one channel provides the data from which the spectrum of vibration amplitude versus frequency is computed by a Fourier analyzer; the other channel provides the approximate operating third-axis parameter. The analysis system samples and calculates the frequency spectrum from one channel and tags the spectrum with the operating parameter from the second channel. The process is repeated until the memory unit is filled and continues until the entire operating range of the machine has been covered. The data base is stored, the data memory erased, the data base sorted, and repetitive samples of data for the same third axis are averaged. The results are then plotted on a three-dimensional contour plot. Shaft orbits, magnitude and phase order tracking, and runout correction facilitates machinery diagnostic testing for rotating equipment analyses.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

ANTECH INC

788 Myrtle St
Roswell GA 30075 (404) 993-7270

► COPE

An architectural engineering program that provides planning and modeling solutions to financial and engineering problems

Price \$395 purchase

Environment Computers: IBM Personal Computer and compatible microcomputers; Texas Instruments Professional Computer. Main storage: 128K bytes. Source language: BASIC.

Capabilities Cash flow. Budget analysis. Engineering design. Construction cost estimates. Apartment syndication. Leaf spring design. Pump and motor selection. Cost/benefit analysis.

Description COPE (Computerized Operations Planning Engineering) is a solutions generator (or modeling system) that creates a BASIC program to solve a specific problem. Seven complete sample models are included: cash flow/budget analysis, engineering design, construction cost estimating, apartment syndication, leaf spring design, pump and motor selection, and cost benefit analysis. Multiple data sets can be created for a single model. Up to 14 standard and special report formats can be stored for each model.

Three-dimensional model building is available, and data can be copied, added, or subtracted from up to 18 data files at a time. In addition, Goal Seek allows the user to specify the end result, and COPE will seek the starting values.

COPE comes with utilities to copy or delete models, consolidate data sets, or move portions of data.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

AREA INC

Union Square
111 Gold Ave SE
Albuquerque NM 87102 (505) 243-0653

► EWIT (Energy What If Tool)

An architectural engineering program that calculates building energy consumption during design

Price \$250 purchase

Environment Computers: IBM Personal Computer; Osborne; Wang PC. Main storage: 48K bytes. Source language: BASIC.

Capabilities Performs energy consumption calculations. Plots routines for energy loads.

Description EWIT allows architects and design engineers to assess the energy implications of building design options. Users can evaluate the energy impacts from different fenestrations, insulation levels, amounts of internal mass, and the use of an economizer cycle.

EWIT produces monthly summaries of energy loads within a building and can create a plot file with hourly values for 27 variables. Using the program's plot routine, up to 3 variables can be plotted simultaneously over four seasons to identify daily trends and timing peaks.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

ARIEL CORP

600 West 116 St
 Suite 84
 New York NY 10027

(212) 662-7324

► RTA-331

An electrical engineering program that provides real-time spectrum analysis capability for Ariel RTA-311 hardware

Price \$649.95 purchase

Environment Computers: IBM Personal Computer. Main storage: 64K bytes. Source language: Assembler.

Capabilities Spectrum analysis. Digital signal processing. Speech synthesis.

Description The RTA-331 program is designed to support the Ariel RTA-331 Real Time Spectrum Analyzer, which plugs into the expansion slot of the IBM PC and PC XT. The analyzer divides the audio spectrum into 31 one-third-octave bands from 20 Hertz to 20 kilohertz and interactively displays the relative amplitude of each frequency band.

Assembly language subroutines handle all high-speed operations. A driver program written in BASIC provides interactive control over all RTA-331 parameters. Another BASIC program is provided for control of data acquisition functions. An autostart file is included so that the computer can automatically run RTA-331 when it is first turned on. All programs and assembly source code listings are supplied on a single-sided diskette.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

BINKLEY SOFTWARE

7246 Sharon Dr
 San Jose CA 95129

(408) 257-9252

► ROUTE-Runoff Detention Basin

A civil engineering program for storm-water detention basin design

Price \$295 purchase

Environment Computers: Hewlett-Packard HP 85. Main storage: not specified. Source language: not specified.

Capabilities Stores all inputs on tape for testing any number of inflow conditions. Analyzes controlled reservoirs by storing configuration from outlet valve or gate settings. Provides edit feature.

Description ROUTE-Runoff Detention Basin is a civil engineering program that designs storm-water detention basins. Output includes inflow and outflow hydrographs and total volume stored. The system also provides a formatted printout and input reservoir configuration curve.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

C & G SOFTWARE SYSTEMS

2459 Lawrenceville Hwy
 Decatur GA 30033

(404) 320-6756

► SURVEY SYSTEM 1.1

A civil engineering package that performs land surveying calculations

Price \$1,500 purchase

Environment Computers: IBM Personal Computer; Tandy TRS-80 models 1, 3, 4, II, 12, and 16; Kaypro 2, 4, and 10; Toshiba T-100, T-200, T-250, T-300; COMPAQ; Monroe OC 8820/28; Victor 9000; Apple IIe with CP/M; Compustar Superbrain; Epson QX-10; NEC APC; Osborne 1; Xerox 820. Main storage: 128K bytes with interpreter in memory. Source language: BASIC.

Capabilities Coordinate geometry calculations. Topographical data interpolation. Plotting routines.

Description SURVEY SYSTEM 1.1™ reduces traverse field data, performs the customary coordinate geometry operations, and reduces stadia or electrodischarge machining (EDM) level notes. Further functions include vertical curve design, horizontal curve stake-out, solar observations, and production of stick-ons for drawings. The package can interpolate topographical data. Approximately 10,000 coordinate pairs can be stored so that the program can handle large surveying projects. With a high-resolution printer, data points can be plotted graphically to any scale.

Data input can be stopped at any time and restarted later with no adverse effects. Erroneous angles and distances can be corrected immediately after data input or days later if the error is field oriented.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001



CELESTIAL SOFTWARE INC

125 University Ave
Berkeley CA 94710

(415) 841-7175

► IMAGES-2D

A finite-element analysis program that performs static and dynamic analysis of plane frames, beams, and trusses

Price \$1,699 purchase

Environment Computers: IBM Personal Computer; Eagle, COMPAQ, Columbia, and Corona microcomputers. Main storage: 128K bytes. Source language: BASIC.

Capabilities Finite-element analysis. Static loading. Natural frequencies. Mode shapes. Screen plots of data.

Description IMAGES-2D™ is a finite-element analysis program using beam and truss elements. The program will handle 100 nodes, 200 elements, and 300 degrees of freedom. Results are obtained for static loading, natural frequencies and mode shapes, and dynamic response to input response spectra. The menu-driven program can create screen plots of model geometry, deflected shapes, and animated mode shapes.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

COADE

A Division of International Thomson Information Inc
8550 Katy Freeway
Suite 122
Houston TX 77024

(713) 973-9060

► E-PAC1

A structural engineering package that performs structural and mechanical design

Price \$495 purchase

Environment Computers: IBM Personal Computer; microcomputers running under MS-DOS. Main storage: 128K bytes. Source languages: BASIC and FORTRAN-77.

Capabilities Computes geometric properties of shapes. Measures deflection, bending, and stresses.

Description E-PAC1 is a series of 11 algorithms for structural and mechanical design used to compute the following:

- BEAM1—Deflections and stresses in beams
- CONTACT—Contact stress for spherical and cylindrical shapes
- CURBEAM—Bending of curved beams
- GENPROP—Geometric properties of a cross-sectional area of general shape
- POPA—Geometric properties of commonly used cross-sectional areas
- PORTFRM—Stresses and displacements of an arbitrary portal frame

- RPLATE—Deflections and stresses in thin rectangular plates
- RPROP—Geometric properties of composite cross-sectional area
- SST—Stress and strain transformation
- THICKWL—Stresses in internally and/or externally pressurized, thin or thick cylinders with capped or open ends
- SOLIDS—Volumetric properties of commonly used shapes.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

COADE

A Division of International Thomson Information Inc
8550 Katy Freeway
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Houston TX 77024

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► ECONOMICS4

A petroleum engineering package that performs spreadsheet calculations of oil and gas reserves

Price \$495 purchase

Environment Computers: IBM Personal Computer; microcomputers running under MS-DOS. Main storage: 192K bytes. Source languages: BASIC and FORTRAN-77.

Capabilities Windfall profits. Production. Ad valorem taxes. Cash flow. Load analysis

Description ECONOMICS4 is a spreadsheet-based template designed to be used in the evaluation of oil and gas reserves. Windfall-profit, production, and ad valorem taxes are calculated.

Additional capabilities accommodate the following:

- Exponential and hyperbolic production decline of major and minor phases
- Production price and operating cost escalations
- Interest reversions
- Discounted cash flow analysis
- Loan analysis

Two versions of ECONOMICS4 are available. Version 1 prints lengthwise using a dot matrix printer. The "sideways" program needed for printing lengthwise is provided at no charge. Version 2 prints on three 8-1/2-by-11-inch pages for use in notebooks and reports.

The template is designed for use with Microsoft Multiplan and Lotus 1-2-3.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

COADE

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Houston TX 77024

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► FRAME2D

A structural engineering package that analyzes two-dimensional frame and truss structures

Price \$495 purchase

Environment Computers: IBM Personal Computer; microcomputers running under MS-DOS. Main storage: 128K bytes. Source languages: BASIC and FORTRAN-77.

Capabilities Finite-element analysis. Graphics.

Description FRAME2D is a series of programs for analyzing two-dimensional frame and truss structures. A matrix solution, finite-element method is used.

The structure is modeled as beam and/or truss members interconnected at joints (or nodes). Forces and moments can be applied at nodes, and distributed loadings or pressures can be applied to beam member surfaces.

The main algorithm allows for branching into routines that will calculate all the necessary geometric properties of common, general and composite shapes.

Full graphic capabilities are available to enable the user to check the input and to see the effect of applied loads and moments.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

COADE

A Division of International Thomson Information Inc
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Suite 122
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► MicroSHELL

A mechanical engineering program that performs finite-element analysis of shells

Price \$895 purchase

Environment Computers: IBM Personal Computer; microcomputers running under MS-DOS. Main storage: 128K bytes. Source languages: BASIC and FORTRAN-77.

Capabilities Performs stress and deflection calculations

Description MicroSHELL is a finite-element program designed for computing deflection, strain, and stress in shells of revolution, such as pressure vessels, formed heads, piping, and others. The model may include up to 100 nodes and 100 elements. Stresses and deformations due to temperature changes can be calculated.

MicroSHELL consists of two integrated programs. The

first, PREP1, is a menu-driven preprocessor that uses mesh generation methods to prepare input data for the second program, SHELL.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

COADE

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► SAMPLE

A reliability engineering program that provides the confidence limits of top events

Price \$200 purchase

Environment Computers: IBM Personal Computer; microcomputers running under MS-DOS. Main storage: 128K bytes. Source languages: BASIC and FORTRAN-77.

Capabilities Monte Carlo simulation. Three output modes.

Description SAMPLE uses the Monte Carlo sampling technique to obtain the mean, standard deviation, probability range, and distribution for multivariable functions. Independent variables can be, for example, component reliabilities subject to statistical variations. The dependent variable can be the system reliability. From values for the location and dispersion parameters of the independent variables and a specific input distribution, SAMPLE generates a Monte Carlo sample of the independent variables and evaluates the corresponding function. System characteristics such as reliability can be evaluated as a range and not a point estimate. The program has three output distributions: normal, log normal, and log uniform.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

COADE

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8550 Katy Freeway
Suite 122
Houston TX 77024

(713) 973-9060

► SCDIST

A chemical engineering program that determines stage and reflux requirements for binary distillation columns

Price \$95 purchase

Environment Computers: IBM Personal Computer; microcomputers running under MS-DOS. Main storage: 128K bytes. Source languages: BASIC and FORTRAN-77.

Capabilities Performs McCabe Thiele procedure. Calculates L/V and number of stages.



Description SCDIST uses an analytical McCabe Thiele procedure to determine stage and reflux requirements for complex binary distillation columns. The column can be divided into a maximum of nine sections.

Relative volatility, number of column sections, product rate from each section, and light key composition in the overhead and bottoms products are input variables. The system can calculate:

- L/V and minimum L/V
- Number of stages and minimum stages for each section of the column.

Compatibility Matrix: 216.0025.001

Features Matrix: 216.0030.001

COADE

A Division of International Thomson Information Inc
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(713) 973-9060

► SGAP

A mechanical engineering program that designs and analyzes spur gears

Price \$250 purchase

Environment Computers: IBM Personal Computer; microcomputers running under MS-DOS. Main storage: 128K bytes. Source languages: BASIC and FORTRAN-77.

Capabilities Calculates bending and surface stresses and contact ratios.

Description SGAP is used in the design and analysis of pinion gear and spur gear sets of the involute tooth form.

The system calculates bending and surface stresses together with the contact ratio. Interference is shown if it occurs.

The Lewis form factor based on single-tooth tip loading is used. Stress concentration factors, factors of safety, and dynamic load conditions can be considered.

SGAP-evaluated tooth systems can be:

- 14.5-degree full depth
- 20-degree full depth
- 20-degree stub
- 25-degree full depth

Multiple pitch and face width combinations can be evaluated and compared in a single run.

Compatibility Matrix: 216.0025.001

Features Matrix: 216.0030.001

COADE

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► SIGMA1

A chemical engineering program that determines the physical properties of petroleum fluids

Price \$250 purchase

Environment Computers: IBM Personal Computer; microcomputers running under MS-DOS. Main storage: 128K bytes. Source languages: BASIC and FORTRAN-77.

Capabilities Supercompressibility. Determines oil, gas, rock, and water properties.

Description SIGMA1 determines the physical properties of single- and multiphase petroleum fluids (gas, oil, and water) and their related rock properties from pressure, volume, and temperature data. There are 23 programs in the package grouped into seven major topics. All programs are designed in accordance with the standard computer symbols recommended by the Society of Petroleum engineers of the American Institute of Mining, Metallurgical, and Petroleum Engineers.

The seven major programs are:

- Supercompressibility factor
- Gas properties from correlations
- Gas properties from composition
- Oil fluid properties from correlations
- Water fluid properties from correlations
- Rock properties
- Multiphase fluid flow properties.

Compatibility Matrix: 216.0025.001

Features Matrix: 216.0030.001

COADE

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► THERMOGEN

A chemical engineering program that estimates vapor-liquid equilibriums in multicomponent systems

Price \$850 purchase

Environment Computers: IBM Personal Computer; microcomputers running under MS-DOS. Main storage: 128K bytes. Source languages: BASIC and FORTRAN-77.

Capabilities Activity coefficients. Equations of state. Liquid phase fugacity. Vapor phase fugacity.

Description THERMOGEN is a subset of the MicroCHESS system. It estimates vapor-liquid equilibriums in multicomponent, two-phase systems. Given values for pressure, temperature, and either liquid or vapor

phase composition, the system can compute the composition of the remaining phase. In addition, K values are reported for each component in the system.

Some available options are:

- Activity coefficients—Regular solution, UNIFAC, UNIQUAC
- Equations of state—Redlich, Kwong, SRK
- Liquid phase fugacity—Yen and Woods, Chao Seader with Grayson Streed modification, SRK
- Vapor phase fugacity—RK or SRK

THERMOGEN contains a 200-component data bank, and the user can add additional components.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

COADE

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Houston TX 77024

(713) 973-9060

► TRANS5

A chemical engineering program that calculates properties of liquid hydrocarbons

Price \$400 purchase

Environment Computers: IBM Personal Computer; microcomputers running under MS-DOS. Main storage: 128K bytes. Source languages: BASIC and FORTRAN-77.

Capabilities Calculates viscosity, gravity, and thermal conductivity.

Description TRANS5 is designed to calculate three properties of liquid hydrocarbons: viscosity, gravity, and thermal conductivity. The program is divided into three sections, each covering a different property.

The viscosity versus temperature section uses equations presented in ASTM-D-341. Correlations for the viscosities of petroleum blends were obtained from curve-fitting of the blending indices that appear in Maxwell. Calculations of viscosity from K and API data use correlations developed by the author of the program.

Specific gravity of hydrocarbon liquid is obtained from curve-fits of the data that appears in Cameron, while thermal conductivity is obtained from fits of data in Kern.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

COADE

A Division of International Thomson Information Inc
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► Two/Three Phase Distillation (2 3 P)

A chemical engineering program that simulates two- and three-phase distillation columns

Price \$495 purchase

Environment Computers: IBM Personal Computer; microcomputers running under MS-DOS. Main storage: 128K bytes. Source languages: BASIC and FORTRAN-77.

Capabilities Calculates K values.

Description 2 3 P uses any combination of two- and three-phase stages. In the two-phase mode, up to 20 components and 100 stages can be handled; for three-phase stages, a maximum of three components and 100 stages can be used. The system also accommodates complex columns with multiple feeds, side streams, and stage heat transfer.

In the three-phase mode, the system calculates K values by using activity coefficients from the NRTL equation and saturation pressure. For two-phase distillation, K values are calculated from polynomials in temperature.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

DISCO-TECH

PO Box 1659
Santa Rosa CA 95402

(707) 523-1600

► BEAM-1

A structural engineering program that computes loading conditions for beams

Price \$145 purchase

Environment Computers: IBM Personal Computer and compatible microcomputers running under CP/M, MP/M, MS-DOS, and Turbodos. Main storage: 128K bytes. Source languages: CB80 and CB86.

Capabilities Displays maximum deflections. Solves for reactions, shears, moments, and deflections.

Description BEAM-1 is a structural engineering program that solves for reactions, shears, moments, and deflections for virtually every loading condition on any simple beam. The system analyzes simple beams with or without cantilevers on either or both ends, allows uniform loads for center span and each cantilever, and accepts an unlimited number of point loads. Triangular loads or other unusual loadings are estimated with a series of appropriate point loads. In addition, BEAM-1 displays maximum deflections and solves for deflections anywhere along the beam.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001



DISCO-TECH

PO Box 1659
Santa Rosa CA 95402

(707) 523-1600

► CoGo-Survey 80

A civil engineering program that performs coordinate geometry calculations for geometric layout

Price \$500 purchase

Environment Computers: IBM Personal Computer and compatible microcomputers running CP/M, MP/M, MS-DOS, and Turbodos. Main storage: 128K bytes. Source language: CB80 and CB86.

Capabilities Eleven methods of point location. Curve design. Street intersections.

Description CoGo is the central program in Disco-Tech's Survey 80 software system. CoGo performs coordinate geometry calculations for various geometric shapes found in land subdivisions. Up to 4,549 points can be created and stored per job. All points in CoGo are represented by coordinates. These coordinates can be generated by Disco-Tech's other Survey 80 program, FiNDeR, or entered directly.

CoGo allows 11 methods of point location or creation, including by bearing or angle/distance, inverse, and intersection. CoGo provides area data specified by parallel or hinged side, or data of a traverse by double-meridian-distance method, including the radius points. Traverses may be adjusted by rotating bearings and translating coordinates. The program also provides curve design and street intersection information.

A CoGo option duplicates any point range then rotates and transforms those coordinates.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

DISCO-TECH

PO Box 1659
Santa Rosa CA 95402

(707) 523-1600

► FiNDeR-Survey 80

A civil engineering program that reduces field survey data for closed or open traverse and side shots to coordinate points

Price \$400 purchase

Environment Computers: IBM Personal Computer and compatible microcomputers running CP/M, MP/M, MS-DOS, and Turbodos. Main storage: 128K bytes. Source language: CB80 and CB86.

Capabilities Multiple balancing methods. Rotates bearings. Transforms coordinates. Corrects temperature and slope.

Description FiNDeR, Field Note Data Reduction, is an internal part of the vendor's Survey 80 package. FiNDeR reduces survey field data for closed or open

traverse and side shots to coordinate points. Each point has 14-digit accuracy and is stored on disk for later use with the other Survey 80 programs. Traverses can be closed with equal angle error adjustment or with no adjustment. With the ability to balance by compass, transit, or Crandall method, FiNDeR weighs the results of each method for comparison. FiNDeR rotates bearings, transforms coordinates, makes temperature and slope correction, and accepts turned or deflected angles. Such input data as temperature, slope, and distance are stored and can be retrieved. All distances can be multiplied by a specified scale factor. FiNDeR can correct input data and generate printouts of input data as well as intermediate and final results.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

DISCO-TECH

PO Box 1659
Santa Rosa CA 95402

(707) 523-1600

► FRAME 80

A structural engineering frame analysis program that computes and analyzes structure and load data

Price \$1,200 purchase

Environment Computers: IBM Personal Computer and compatible microcomputers running under CP/M, MP/M, MS-DOS, and Turbodos. Main storage: 128K bytes. Source language: CB80 and CB86.

Capabilities Two-dimensional frame analysis. Data editing.

Description FRAME 80 is a two-dimensional frame analysis program that can be applied to beams, trusses, and large grid frames loaded with any combination of dead, live, wind, and earthquake loads. Structure and load information may be manually entered or computer generated to minimize input time. Editing capabilities simplify reanalysis or correction of the structure. Files may be copied to save existing data while changing the structure or to create a new geometrically similar structure. All input data can be displayed on the terminal or printed.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

DISCO-TECH

PO Box 1659
Santa Rosa CA 95402

(707) 523-1600

► HCS (Horizontal Curve Staking)

A civil engineering program that calculates and prints horizontal curve staking data

Price \$95 purchase

Environment Computers: IBM Personal Computer and compatible microcomputers. Main storage: not specified. Source language: not specified.

Capabilities Calculates and prints beginning and end of curve, radius, delta angle, tangent, curve length, offset, station intervals, and deflected and turned angles.

Description Based on the instrument station, delta angle, and radius of the curve, HCS calculates and prints out the information required to lay out a circular curve in the field. The curve may be staked from the beginning or the end of the curve. The instrument may be located on a line offset from the center line. Stations are calculated at evenly spaced intervals and specified odd stations. When the specified long chord is exceeded, HCS automatically moves up on the curve.

Compatibility Matrix: 216.0025.001

Features Matrix: 216.0030.001

DISCO-TECH

PO Box 1659
Santa Rosa CA 95402

(707) 523-1600

► MapCheck—Parcel Perimeter and Area Check

A civil engineering package that creates and stores sets of traverse data from previously calculated data

Price \$95 purchase

Environment Computers: IBM Personal Computer and compatible microcomputers. Main storage: not specified. Source language: not specified.

Capabilities Calculates traverse bearings, distances, and area by inverse.

Description MapCheck—Parcel Perimeter and Area Check creates and stores sets of traverses calculated from data previously entered by the vendor's FiNDeR, CoGo, and EDM/Topo programs. MapCheck does not generate any new points but calculates traverse bearings, distances, and area by inverse from previously collected data. Traverses are created and stored in sets or may be created separately in any number. The traverses are identified by number and two-line description, and the user can correct or change them without reentering the whole set of point numbers. MapCheck supports both point-to-point and batch data entry.

Printouts are ready for government review and include a table of results with inverses, radius point information, and area calculations. Printed calculation results include the bearing and distance from point number to point number as well as the northing and easting. A listing of the radius point calculations is included with delta, arc, tangent, and chord.

Compatibility Matrix: 216.0025.001

Features Matrix: 216.0030.001

DISCO-TECH

PO Box 1659
Santa Rosa CA 95402

(707) 523-1600

► Plotter—Survey 80

A civil engineering program that provides point-to-point coordinate plotting

Price \$95 purchase

Environment Computers: IBM Personal Computer and compatible microcomputers running under CP/M, MP/M, MS-DOS, and Turbodos. Main storage: 128K bytes. Source language: CB80 and CB86.

Capabilities Four plotting methods.

Description Plotter is a point-to-point program designed to be used with Survey 80 programs and point files generated by FiNDeR, CoGo, or EDM/Topo. Plotter has the option of editing the file, selecting certain sections, or determining the printed-out scale of the plot. The selected points can be printed out on a line printer. The area to be plotted can be determined in four ways: (1) by the individual point numbers, (2) by a range of point numbers, (3) by a scale on which the data will be plotted, or (4) by a coordinate grid limit. The points are plotted to scale with their identifying numbers. Only the computer's memory size limits the number of points that can be plotted. Coordinate values are limited to $\pm 99,999,999$. The scale must be a positive number not greater than 9,999,999. Accuracy varies according to the precision of the printer but generally ranges from 1/32 to 1/96 inch vertically and 1/120 to 1/240 inch horizontally.

Compatibility Matrix: 216.0025.001

Features Matrix: 216.0030.001

DISCO-TECH

PO Box 1659
Santa Rosa CA 95402

(707) 523-1600

► Stadia

A civil engineering program that calculates distance, coordinates, and elevation at the rod station

Price \$95 purchase

Environment Computers: IBM Personal Computer and compatible microcomputers running under CP/M, MP/M, MS-DOS, and Turbodos. Main storage: 128K bytes. Source language: CB80 and CB86.

Capabilities Calculates up to 500 points. Calculates vertical or zenith slope angles.

Description Stadia calculates the horizontal distance to the elevation and the coordinates at the rod station. With Stadia, a fixed instrument station or successive station can be detailed, and up to 500 points can be calculated. Slope angles can be entered as either vertical or zenith. Stadia permits the entry of high and low rod readings or the stadia interval or a measured distance.



Data can be corrected at any time. Stadia prints out input and/or reduced data for any range of points.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

DISCO-TECH

PO Box 1659
Santa Rosa CA 95402

(707) 523-1600

► VertiCurve

A civil engineering program that performs vertical curve design

Price \$125 purchase

Environment Computers: IBM Personal Computer and compatible microcomputers running under CP/M, MP/M, MS-DOS, and Turbodos. Main storage: 128K bytes. Source language: CB80 and CB86.

Capabilities Station and elevation calculations from various points on a curve.

Description VertiCurve calculates the beginning and ending stations and elevation of the vertical curve; station and elevation of the point of vertical intersection of the tangent lines; station and elevation of the high or low point of the curve; length of the curve; and vertical curve elevations at specified regular station intervals and at specified intermediate stations. VertiCurve provides instant display and easy correction and prints out input and calculations.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

DISCO-TECH

PO Box 1659
Santa Rosa CA 95402

(707) 523-1600

► WATNET (Water Network Analysis)

A civil engineering program that analyzes water distribution systems

Price \$695 purchase

Environment Computers: IBM Personal Computer and compatible microcomputers running under CP/M, MP/M, MS-DOS, and Turbodos. Main storage: 128K bytes. Source language: CB80 and CB86.

Capabilities Calculates flow data, pressure, head loss, and degree of precision.

Description WATNET analyzes water distribution system designs and develops solution information, including flow and flow direction in all pipes, flow from pumps and reservoirs, total and residual pressure at all junctions, head loss in each pipe, and degree of precision in flow and percentage of flow at each junction. WATNET handles up to 100 junctions, 130 pipes, nine reservoirs, nine check valves and pressure reduction valves, and nine pumps.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

DYNACOMP INC

1427 Monroe Ave
Rochester NY 14618

(716) 442-8960

► Active Circuit Analysis Program (ACAP)

An active and passive circuit analysis program

Price \$44 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT under PC-DOS. Main storage: 48K bytes. Source language: BASIC.

Capabilities Calculates node voltages. Analyzes circuit elements. Simulates transistors and amplifiers.

Description ACAP™ calculates the node voltages of a network. It analyzes such circuit elements as resistors, capacitors, inductors, voltage sources, current sources, and voltage-controlled current sources.

A circuit description must have nodes numbered 0 through n when there are $n+1$ nodes in the circuit. The maximum number of nodes in a circuit description is 40. The program outputs node voltages referenced to node 0 or outputs node gains in decibels referenced to a specified node. Transistors/amplifiers can be simulated with the voltage-controlled current source. ACAP includes an analysis of the uncertainty in the circuit response because of variations in components.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

DYNACOMP INC

1427 Monroe Ave
Rochester NY 14618

(716) 442-8960

► BEAM DEFLECTION

A structural engineering program that aids in structural analysis

Price \$40 purchase

Environment Computers: IBM Personal Computer; microcomputers running under MS-DOS. Main storage: 64K bytes. Source language: BASIC.

Capabilities Beam description. Stress and deflection calculations. Graphic display.

Description BEAM DEFLECTION consists of two programs. The first permits the development of data files that describe the beam. For example, the ends of the beam may be pinned, clamped, or free. The beam may be uniformly supported by an elastic bed or held up by springs variously placed and having differing spring constraints. The elasticity and cross section of the beam may vary along its length.

Following the description of the beam, the analysis program is called. It calculates the stress and deflections of the beam, which can also be displayed in graphic form.

Because input data is saved, the user can easily rerun cases with modifications for iterative design.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

DYNACOMP INC

1427 Monroe Ave
 Rochester NY 14618

(716) 442-8960

► DIGITAL FILTER

An electrical engineering program that processes data using a system- or user-defined filter function

Price \$50 purchase

Environment Computers: IBM Personal Computer; microcomputers running under MS-DOS. Main storage: 64K bytes. Source language: BASIC.

Capabilities Menu or design mode. Multiple filter conversion functions.

Description DIGITAL FILTER converts filter forms into nonrecursive convolution coefficients for rapid data processing. In the explicit design mode, the user specifies the shape of the frequency transfer function by directly entering points along the desired filter curve. In the menu mode, the user can approximate ideal low-pass, high-pass, and bandpass filters in varying degrees according to the number of points used in the calculation. These filters can be smoothed with a Hanning function. The user can also select multistage Butterworth filters. DIGITAL FILTER allows the user to plot data before and after filtering. The data storage format is consistent with the vendor's other applications. This compatibility allows the user to selectively filter data before processing any of these programs.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

DYNACOMP INC

1427 Monroe Ave
 Rochester NY 14618

(716) 442-8960

► HARMONIC ANALYZER

A program that analyzes repetitive waveforms.

Price \$34 purchase

Environment Computers: IBM Personal Computer; microcomputers running under MS-DOS. Main storage: 64K bytes. Source language: BASIC.

Capabilities Fast Fourier transformations. Cubic spline interpolation.

Description HARMONIC ANALYZER uses a base-2 Fast Fourier Transform routine. Although this algorithm places some restrictions on the input data set, it increases the speed of the transform calculation.

A cubic spline interpolation procedure allows the user to transform irregularly spaced data in order to minimize

the unwanted interpolation oscillation or ringing associated with abrupt signal changes. The system also sorts data in temporal order.

Compatibility Matrix: 216.0025.001
Features Matrix: 216.0030.001

DYNACOMP INC

1427 Monroe Ave
 Rochester NY 14618

(716) 442-8960

► Microcomputer Circuit Analysis Program (MICRO-CAP)

An interactive drawing and analysis program

Price \$400 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT under PC-DOS. Main storage: 128K bytes. Source language: BASIC.

Capabilities Circuit design. Performance predictions. Plotting functions.

Description MICRO-CAP allows an engineer to design and predict a circuit's performance. The system enables the user to:

- Draw an electronic circuit diagram directly on the CRT screen
- Run a time-domain simulation of the circuit, responding to user-defined input sources
- Perform an AC (Bode) analysis showing gain and phase shift versus frequency
- Perform a DC transfer characteristic analysis showing output voltage versus input voltage
- Perform a transient analysis and generate the results in printer plot or tabular fashion

Input includes drawn circuit diagrams, keyed circuit descriptions, and the standard components library. Output, besides that previously listed, includes CRT waveforms, printer plots of waveforms, printer tabular listings of node voltages, and network listings.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.001

DYNACOMP INC

1427 Monroe Ave
 Rochester NY 14618

(716) 442-8960

► Microcomputer Logic Design Program (MICRO-LOGIC)

An interactive drawing and simulation program

Price \$400 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT under PC-DOS. Main storage: 128K bytes. Source language: BASIC.

Capabilities Circuit design. Performance prediction. Timing simulations.



Description MICRO-LOGIC allows users to design circuits and predict their performance. Users can draw logic diagrams directly on the screen. From these diagrams, the system automatically prepares net lists for simulation. Users can also run timing simulations of the networks, responding to user-defined input sources. Users can create their own gates. Up to 36 different five-input functions can be defined and subsequently used in any network. Gate characteristics include name, delay, 64-state truth tables, and input/output clocking.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.001

DYNACOMP INC

1427 Monroe Ave
 Rochester NY 14618

(716) 442-8960

► ROOTS

A general-purpose engineering program that determines the zeros of a polynomial having real coefficients

Price \$20 purchase

Environment Computers: IBM Personal Computer; microcomputers running under MS-DOS. Main storage: 64K bytes. Source language: BASIC.

Capabilities Cubic convergence. Two-digit precision.

Description ROOTS™ employs an algorithm that iteratively seeks all roots simultaneously. The convergence is cubic (and therefore rapid) and stable, requiring no explicit initial guesses from the user. Accuracy is usually within two digits of the precision of the version of BASIC employed. In addition to displaying the calculated solutions, the program also shows the results of substituting those values in the original polynomial. Convergence failure is limited to special multiple roots. Any order polynomial can be treated.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002

DYNACOMP INC

1427 Monroe Ave
 Rochester NY 14618

(716) 442-8960

► Transfer Function Analyzer (TFA)

A frequency spectrum analysis package

Price \$34 purchase

Environment Computers: IBM Personal Computer; microcomputers running under MS-DOS. Main storage: 64K bytes. Source language: BASIC.

Capabilities Fourier transformation. Plotting functions.

Description TFA applies the Fourier integral transform to data sets to generate frequency domain representations of the function approximated by the input

data set. The user can save and recall the input data file as well as previously calculated results. Data files can be loaded, added to, deleted from, and edited. The user can plot input data before beginning calculations. The user can also plot frequency results. In addition, analyses are easily separated with different frequency parameters, without the user having to reenter the data.

The program displays the results in conventional engineering form. The returned amplitude points appear in decibels relative to the peak value. The phase is in degrees. The frequency transform is calculated in equal log-frequency intervals.

The frequency results can be plotted. Amplitude plotting is performed in decibel/log-frequency format to permit easy identification of frequency response roll-off.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002

ECOM ASSOCIATES

8634 W Brown Deer Rd
 Milwaukee WI 53224

(414) 354-0243

► Bolted Framed Beam Connection

A bolted framed beam connection design or checking system

Price \$350 purchase

Environment Computers: Hewlett-Packard HP 85 and HP 87. Main storage: 32K bytes (HP 85); 64K bytes (HP 87). Source language: not specified.

Capabilities Applies criteria of bolt spacing and minimum and maximum edge distances for both the beam web and the connection angles. Incorporates bearing stresses, shear stresses, and block shear for beams with a top cope. Provides check routine, error messages, and design routine.

Description Bolted Framed Beam Connection is an engineering program used to design or check bolted framed beam connections. The system accepts bolt holes of either standard size—horizontally short slotted in the connection angles or beam web. If either short-slotted or oversized holes are selected, the corresponding hole in either the angle or web will be a standard hole.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002

ECOM ASSOCIATES8634 W Brown Deer Rd
Milwaukee WI 53224

(414) 354-0243

► Composite Steel Beam Design

Composite steel beam and concrete beam design of checking system

Price \$450 purchase**Environment** Computers: Hewlett-Packard HP 85 and HP 87. Main storage: 32K bytes (HP 85); 64K bytes (HP 87). Source language: not specified.**Capabilities** Provides selected beam section, reactions, and maximum moment and location. Calculates bending and web shear. Determines midspan deflection and shear connector data. Supports concentrated or uniform (full- or partial-length) loads.**Description** Composite Steel Beam Design is an engineering program that designs or checks simple span beams of composite steel and concrete construction. It includes data files for W6 through W36 sections, as listed in the *AISC Steel Construction Manual*. The system supports any steel strength.**Compatibility Matrix:** 216.0025.002**Features Matrix:** 216.0030.002**ECOM ASSOCIATES**8634 W Brown Deer Rd
Milwaukee WI 53224

(414) 354-0243

► Concrete Column Design

A structural engineering program that aids in design of concrete columns

Price \$450 purchase**Environment** Computers: IBM Personal Computer; Hewlett-Packard; Wang; Digital Equipment; Apple II+; Tandy TRS-80. Main storage: 64K bytes. Source language: BASIC.**Capabilities** Designs columns. Checks column capacity. Evaluates slenderness effects.**Description** The Concrete Column Design program designs or checks the capacity of a reinforced concrete column in accordance with American Concrete Institute 318-77 methods with bending in either or both directions. Slenderness effects are evaluated through the moment magnification method in accordance with Section 10.11 of the ACI Code. The slenderness ratio is limited to 100 or less. Cross sections include rectangular (tied), round (spiral or tied), and square with circular bar arrangement (spiral or tied). No provision is made for lateral loads applied between ends.**Compatibility Matrix:** 216.0025.002**Features Matrix:** 216.0030.002**ECOM ASSOCIATES**8634 W Brown Deer Rd
Milwaukee WI 53224

(414) 354-0243

► Dynamic Load Analysis

A frequency and modal analysis system

Price \$400 purchase**Environment** Computers: Hewlett-Packard HP 85 and HP 87. Main storage: 32K bytes (HP 85); 64K bytes (HP 87). Source language: not specified.**Capabilities** Provides frequency analysis, modal shape values and participation factor, and general forcing factor. Computes the dynamic response of any portion of the system to a given acceleration spectrum.**Description** Dynamic Load Analysis is an engineering program that determines natural frequencies of vibration, characteristic mode shapes, and modal participation factors for a multidegree elastic system with lumped masses. It handles up to 20 lumped masses, three load levels, and any number of modal response items.**Compatibility Matrix:** 216.0025.002**Features Matrix:** 216.0030.002**ECOM ASSOCIATES**8634 W Brown Deer Rd
Milwaukee WI 53224

(414) 354-0243

► Flat Slab Analysis and Design

A structural engineering program that analyzes and designs flat slab flooring

Price \$625 purchase**Environment** Computers: IBM Personal Computer; Hewlett-Packard HP 110, Series 80, Series 200, 9845, and Integral; Wang 2200 and Professional Computer; Digital Equipment Rainbow 100; Apple II+, Macintosh and Lisa; Tandy TRS-80. Main storage: 64K bytes. Source language: BASIC.**Capabilities** Ultimate strength and working stress calculations.**Description** This program analyzes and designs flat slab or waffle slab floors in accordance with American Concrete Institute 318-77. Flat slabs can have drop panels at columns, and columns can have capitals. Either the ultimate strength or the working stress method can be used. Design is for a one-bay wide strip using the equivalent frame analysis method and can be up to 10 spans. The strip may have cantilevers. No beams parallel to the direction of moments are permitted.**Compatibility Matrix:** 216.0025.002**Features Matrix:** 216.0030.002

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Milwaukee WI 53224

(414) 354-0243

► General Section Properties

A general properties determination system

Price \$250 purchase**Environment** Computers: Hewlett-Packard HP 85 and HP 87. Main storage: 32K bytes (HP 85); 64K bytes (HP 87). Source language: not specified.**Capabilities** Computes total area, moment of inertia, and centroid and section moduli. Calculates gross, uncracked-transformed, and cracked section properties of normal or lightweight concrete for reinforced sections. Also determines effective moments of inertia.**Description** General Section Properties determines irregularly shaped sections and area, line, and concrete elements. It supports 20 area or line elements. Output includes centroidal location and radius of gyration.**Compatibility Matrix:** 216.0025.002**Features Matrix:** 216.0030.002**ECOM ASSOCIATES**8634 W Brown Deer Rd
Milwaukee WI 53224

(414) 354-0243

► Re-Run Data Storage

A data filing system used with the General Frame Analysis program

Price \$200 purchase**Environment** Computers: Hewlett-Packard HP 85 and HP 87. Main storage: 32K bytes (HP 85); 64K bytes (HP 87). Source language: not specified.**Capabilities** Stores analysis data from several previous runs for later use. Includes six tape-storage data files with the Re-Run Data Storage program on the tape and eight tape-storage data files without the program. Provides 10 disk-storage data files without any program on the disk, 2 disk-storage data files with both the Re-Run Data Storage and General Frame Analysis programs on the disk, and 8 disk-storage data files with the Re-Run Data Storage program on the disk.**Description** Re-Run Data Storage is an engineering program used to store data from the General Frame Analysis program, enabling rerun or reuse of the data. General Frame Analysis provides a single set of data files for data storage that can be used during reanalysis. The Re-Run Data Storage program controls the accessing and cataloging of the files on the data file media.**Compatibility Matrix:** 216.0025.002**Features Matrix:** 216.0030.002**ECOM ASSOCIATES**8634 W Brown Deer Rd
Milwaukee WI 53224

(414) 354-0243

► Shear Wall Analysis

A shear wall analysis system that measures wind and seismic loads

Price \$600 purchase**Environment** Computers: Hewlett-Packard HP 85 and HP 87. Main storage: 32K bytes (HP 85); 64K bytes (HP 87). Source language: not specified.**Capabilities** Evaluates the shears and moments for the structure and for each wall element in each direction at every floor level. Distributes load using UBC or BOCA to individual walls. Determines seismic forces using the provisions of the Uniform Building Code.**Description** Shear Wall Analysis is an engineering program that analyzes wind and seismic loads for structures supported by shear walls. Output includes load eccentricities. The program supports up to 30 stories with 40 shear wall elements.**Compatibility Matrix:** 216.0025.002**Features Matrix:** 216.0030.002**ECOM ASSOCIATES**8634 W Brown Deer Rd
Milwaukee WI 53224

(414) 354-0243

► Snow Load Analysis

A snow load computation system for snow loads on roofs

Price \$300 purchase**Environment** Computers: Hewlett-Packard HP 85 and HP 87. Main storage: 32K bytes (HP 85); 64K bytes (HP 87). Source language: not specified.**Capabilities** Calculates total load and snow load for all spaced supports. Determines the appropriate spacing for a known span strength. Calculates moments, reactions, and moment of inertia based on the length and spacing of the supports as well as information on loads if supports are perpendicular.**Description** Snow Load Analysis is an engineering program that calculates snow loads caused when snow drifts onto a roof. The load criteria is calculated from the *Metal Building Systems Manual* published by the Metal Building Manufacturers' Association (1974 or 1981 edition).**Compatibility Matrix:** 216.0025.002**Features Matrix:** 216.0030.002

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Milwaukee WI 53224

(414) 354-0243

► Steel Beam Design

A structural engineering program that serves as a design aid for steel beams

Price \$250 purchase

Environment Computers: IBM Personal Computer; Hewlett-Packard HP 110, Series 80, Series 200, 9845, Integral; Wang 2200 and Professional Computer; Digital Equipment Rainbow 100; Apple II+, Macintosh, and Lisa; Tandy TRS-80. Main storage: 64K bytes. Source language: BASIC.

Capabilities Shear stress calculations. Data files for W6-W36 sections.

Description Steel Beam Design designs or checks steel w, s, and c sections subjected to loads and end moments. The program selects the lightest sections for each of several section depths. A check routine allows the designer to check a section. The ratio of the actual working load shear stress to the American Institute of Steel Construction (AISC) allowable shear stress is also calculated. Solutions do not include biaxial bending problems.

The program includes data files for W6 through W36 sections as listed in the AISC steel construction manual.

Compatibility Matrix: 216.0025.002

Features Matrix: 216.0030.002

plate dimensions can be established for special built-up column shapes.

The program includes data files for W6 through W36 sections as listed in the American Institute of Steel Construction steel construction manual.

Compatibility Matrix: 216.0025.002

Features Matrix: 216.0030.002

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(414) 354-0243

► Stepped Column Analysis

A stepped column analysis system for determining the slenderness ratio

Price \$175 purchase

Environment Computers: Hewlett-Packard HP 85 and HP 87. Main storage: 32K bytes (HP 85); 64K bytes (HP 87). Source language: not specified.

Capabilities Provides lateral bracing to determine the slenderness ratios for the upper and lower portions of the column about the weak axis. Computes slenderness ratio about the strong axis. Determines effective lengths of stepped crane columns.

Description Stepped Column Analysis is an engineering program used to determine slenderness ratio for stepped columns. It examines both the upper and lower shafts of the column for end fixity conditions, ratio of the axial loads, ratio of the moments of inertia of the upper to lower shaft, and ratio of the lengths of the upper and lower shafts.

Compatibility Matrix: 216.0025.002

Features Matrix: 216.0030.002

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(414) 354-0243

► Steel Column and Base Plate Design

A structural engineering program that serves as a design aid for steel columns and base plates

Price \$275 purchase

Environment Computers: IBM Personal Computer; Hewlett-Packard HP 110, Series 80, Series 200, 9845, Integral; Wang 2200 and Professional Computer; Digital Equipment Rainbow 100; Apple II+, Macintosh and Lisa; Tandy TRS-80. Main storage: 64K bytes. Source language: BASIC.

Capabilities Designs wide-flange, tube, or pipe steel sections as well as column base plates. Includes data files for W6-W36 sections.

Description Steel Column and Base Plate designs or checks wide-flange, tube, or pipe steel sections subjected to axial loads with or without bending moments applied about the column's axes. The moments can be applied to either or both ends of the column. The program selects the lightest section for a specified depth. Pinned column base plates can also be designed and base

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Milwaukee WI 53224

(414) 354-0243

► Structural Engineering Programs

An engineering package that analyzes structure and design of buildings

Price \$2,350 purchase

Environment Computers: IBM Personal Computer; Apple II; Tandy TRS-80 Model II and Model 16; Wang 2200; Hewlett-Packard HP 85, 86, 87, 125. Main storage: 32K bytes. Source language: BASIC.

Capabilities Analyzes structure and design of buildings. Provides analysis of frames with up to 200 joints. Analyzes design of concrete beams and columns, flat slabs, steel beams, and columns.

Description Structural Engineering Programs is a package that aids structural engineers in the analysis and design of buildings. This package is a turnkey and ready-to-use program. It is capable of analyzing frames with a maximum of 200 joints. Analysis also includes



design of concrete beams and columns, flat slabs, and steel beams and columns.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002

ECOM ASSOCIATES

8634 W Brown Deer Rd
 Milwaukee WI 53224

(414) 354-0243

► 85/CD-1 Reinforced Concrete Beam Design

An engineering system for designing reinforced concrete beams

Price \$425 purchase

Environment Computers: Hewlett-Packard HP 85A. Main storage: 16K bytes. Source language: not specified.

Capabilities Designs reinforced concrete beams. Calculates reinforcement areas, stirrup spacing, design moments, and inflection points. Provides bar cutoff data.

Description 85/CD-1 Reinforced Concrete Beam Design is a civil engineering system for designing reinforced concrete beams using the ultimate-strength or working-stress method of ACI 318-77. Flexural reinforcement requirements are given for rectangular tee or ledger-beam sections. The end sections and midspan section may be of different sizes. Input includes material properties, design method, cross-section dimensions, stirrup size, and loads.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002

ECOM ASSOCIATES

8634 W Brown Deer Rd
 Milwaukee WI 53224

(414) 354-0243

► 85/CD-2 Reinforced Concrete Column Design

An engineering system that designs and checks the capacity of a reinforced concrete column

Price \$400 purchase

Environment Computers: Hewlett-Packard HP 85. Main storage: not specified. Source language: not specified.

Capabilities Designs or checks capacity of a reinforced concrete column. Reinforces data. Calculates allowable load and moment, moment magnification factor, and spiral size and pitch.

Description 85/CD-2 Reinforced Concrete Column Design is a civil engineering system that designs or checks the capacity of a reinforced concrete column in accordance with ACI 318-77, with bending in either or both directions. Input includes material properties, design method, loads and moments, unsupported length,

and cross-section and effective length. Cross-sections are either rectangular, round, or square with a circular bar arrangement. The system outputs reinforcement data, allowable load and moment, moment magnification factor, and spiral size and pitch.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002

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(414) 354-0243

► 85/CD-3 Flat Slab Analysis and Design

An engineering system that analyzes and designs flat-slab or waffle-slab floors

Price \$575 purchase

Environment Computers: Hewlett-Packard HP 85. Main storage: 16K bytes. Source language: not specified.

Capabilities Analyzes and designs flat-slab or waffle-slab floors. Uses equivalent frame analysis method. Supports up to 10 spans. Outputs joint moments and shears, design forces, shear stresses, reinforcement data, and material quantities.

Description 85/CD-3 Flat Slab Analysis and Design is a civil engineering system that analyzes and designs flat-slab or waffle-slab floors in accordance with ACI 318-77. The flat slabs may have drop panels at columns, and the columns may have capitals. Design, which is for one-bay-wide strips, uses the equivalent frame analysis method. These strips may include up to 10 spans. The strip may have cantilevers. Beams parallel to the direction of moments are not permitted. Accepted input includes spans and bay width, strip configuration, material properties, loads, and design method.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002

ECOM ASSOCIATES

8634 W Brown Deer Rd
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(414) 354-0243

► 85/FA-3 Plan Frame and Truss Analysis

A civil engineering system that calculates forces, reactions, and maximum moments

Price \$700 purchase

Environment Computers: Hewlett-Packard HP 85A. Main storage: 16K bytes. Source language: not specified.

Capabilities Calculates forces, reactions, and maximum moments. Determines joint displacements and rotations. Supports members with variable-section and uniform or concentrated loads.

Description 85/FA-3 Plan Frame and Truss Analysis is a civil engineering system that determines critical moments, shears, axial loads, and displacements at all joints for a plane frame of any configuration. The system allows initial axial displacements in order to evaluate the effects of settlements, member shrinkage, or member temperature change. Members may have variable-section and uniform or concentrated loads. Input into the system includes frame geometry, support conditions, member properties, load and axial initial displacements, and load combinations.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002

ECOM ASSOCIATES

8634 W Brown Deer Rd
 Milwaukee WI 53224

(414) 354-0243

► 85/SD-1 Steel Beam Design

A civil engineering system that designs and checks steel beams for load and end moments

Price \$225 purchase

Environment Computers: Hewlett-Packard HP 85A. Main storage: 16K bytes. Source language: not specified.

Capabilities Designs or checks steel W, S, and C sections subjected to loads and end moments. Calculates the ratio of the actual working-load shear stress to the AISC allowable shear stress. Outputs results on lightest section, moment capacity, maximum moments, center line, and cantilever deflections.

Description 85/SD-1 Steel Beam Design is a civil engineering system that designs or checks steel W, S, and C sections subjected to loads and end moments. The lightest sections for each of several section depths are selected. The check routine allows the designer to check a section. Data files for W6 through W36 sections, as listed in the AISC Steel Construction Manual, are also included in the program. Input includes loads and end moments, material properties, bracing points, section type, and nominal depth.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002

ECOM ASSOCIATES

8634 W Brown Deer Rd
 Milwaukee WI 53224

(414) 354-0243

► 85/SD-2 Steel Column Design

A civil engineering system that designs and checks wide-flange sections of steel columns

Price \$275 purchase

Environment Computers: Hewlett-Packard HP 85A. Main storage: 16K bytes. Source language: not specified.

Capabilities Designs or checks wide-flange sections subjected to axial loads. Selects the lightest section for a specified depth. Determines base-plate dimensions. Accepts material properties, bracing conditions, axial loads, moments, and nominal depth as input.

Description 85/SD-2 Steel Column Design is a civil engineering system that designs or checks wide-flange sections subjected to axial loads with or without bending moments applied about axes of the column. Application of moments can be to either or both ends of the column. The lightest section of the column is selected for a specified depth. The system also designs "pinended column" base plates. Base-plate dimensions can be established for special "built-up" column shapes. Data files for W6 through W36 sections, as listed in the AISC Steel Construction Manual, are included.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002

ECOSOFT

PO Box 68602
 Indianapolis IN 46268

(317) 255-6476

► Microstat

A data management system for research, educational, and industrial work

Price \$325 purchase, Microstat 2.0; \$395 purchase, Microstat 3.0

Environment Computers: any microcomputer running under CP/M. Main storage: 48K bytes. Source language: Microsoft BASIC-80.

Capabilities Creates files. Analyzes statistical data. Tests hypotheses. Reduces errors in statistical calculations.

Description Microstat is a data management system suited for research, educational, and industrial work. It includes a data management subsystem for file creation. Other features include descriptive statistics; hypothesis tests; analysis of variance; scatterplot; correlation analysis; simple, multiple, and stepwise regression analysis; and time-series and probability distributions. Microstat's algorithms help reduce errors introduced by large numbers, which are frequently used in statistical calculations.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002

ELECTROCON INTERNATIONAL

611 Church St
 Ann Arbor MI 48104

(313) 761-8612

► Electrocon IBM PC Power Flow Program

An electrical engineering program that performs transmission planning studies of electrical networks



Price \$5,000 purchase

Environment Computers: IBM Personal Computer; microcomputers running under MS-DOS. Main storage: 128K bytes. Source language: PC-BASIC.

Capabilities Voltage calculations. Area interchange schedules. Report generator.

Description The Electrocon IBM PC Power Flow Program performs transmission planning studies of electrical networks. Input formats follow IEEE standards. Control limits can be enforced during solution, including VAR (volt-ampere reactive) limits on generators, voltage control by reactive generation and LTC (long time constant) transformers, area interchange schedules, and MW (megawatt) and MVAR (megavoltampere) flows through transformers. The report generator utilizes a unique set concept that allows the user full control of format and content.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002

ELITE SOFTWARE DEVELOPMENT INC

PO Drawer 1194
Bryan TX 77806

(409) 775-1782

► Building Energy Analysis

A structural engineering program that evaluates and projects the energy-use requirements of commercial buildings.

Price \$695 purchase

Environment Computers: IBM Personal Computer; microcomputers running under CP/M. Main storage: 64K bytes. Source language: not specified.

Capabilities Calculates monthly and annual operating costs. Computes hourly space loads for heating and cooling.

Description The Building Energy Analysis program calculates monthly and annual operating costs on buildings having as many as 1,000 zones and 100 air systems. The program allows the user to use many sophisticated techniques in analyzing the operating costs of a building. All common types of cooling and heating plants and air terminal systems can be analyzed.

The program computes hourly space loads using the heating and cooling load methods described in the *ASHRAE 1981 Fundamentals*.

Eight energy sources are allowed by the program: electric, natural gas, oil, propane, steam, coal, diesel, and user-defined energy sources. Nine energy-use categories are allowed.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002

ELITE SOFTWARE DEVELOPMENT

PO Drawer 1194
Bryan TX 77806

(409) 775-1782

► Commercial Cooling & Heating Loads

A structural engineering program that calculates heating and cooling loads of buildings

Price \$295, 2 zone; \$595, 50 zone; \$995, 100 zone; \$1,495, unlimited; all purchase

Environment Computers: IBM Personal Computer; microcomputers running under CP/M. Main storage: 56K bytes. Source language: not specified.

Capabilities Menu-driven programs compute supply air quantities.

Description The Commercial Cooling & Heating Loads program calculates heating and cooling loads on buildings having as many as 1,000 zones and 100 air systems. It computes supply air quantities as well as psychrometric data. The program features exterior and interior shading, psychrometric analysis, internal operating load profiles, building rotation, disk-stored input, reheat and subcooling calculations, positive and negative pressurization allowances, and many print options. The program performs monthly and hourly calculations using exact table values and procedures from the *ASHRAE 1981 Fundamentals*.

The program requests input data through a series of menus and prompts; the program will not continue past an input section until valid data has been entered. All input data is saved and can be reviewed and edited whenever desired.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002

ELITE SOFTWARE DEVELOPMENT INC

PO Drawer 1194
Bryan TX 77806

(409) 775-1782

► Lighting Fixture Calculation Program

An electrical engineering program that calculates lighting fixture requirements using the Illuminating Engineering Society (IES) zonal cavity lighting fixture method

Price \$495 purchase

Environment Computers: IBM Personal Computer; microcomputers running under CP/M. Main storage: 56K bytes. Source language: not specified.

Capabilities Calculates and interpolates coefficients of utilization. Accommodates up to 165 rooms per project.

Description The Lighting Fixture Calculation Program calculates the number of lighting fixtures required for any room conditions when given the desired level of footcandles. The program has a file containing photometric data for over 200 common lighting fixtures. The

user can revise and review the lighting fixture data and can add new fixture data to the file. Data on 250 to 2,000 lighting fixtures can be stored on a diskette. The program stores a fixture description, the lumens per fixture, and all of the coefficients of utilization (CUS) for each fixture. When calculating lighting fixture requirements, the program will automatically look up the CU and perform the proper interpolation if necessary.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002

ELITE SOFTWARE DEVELOPMENT INC

PO Drawer 1194
 Bryan TX 77806

(409) 775-1782

► S-PIPE (Service Supply Pipe Sizing)

A mechanical engineering program that sizes hot and cold service water pipe systems

Price \$395 purchase

Environment Computers: IBM Personal Computer; microcomputers running under CP/M. Main storage: 64K bytes. Source language: not specified.

Capabilities Contains ASHRAE tables and curves. Accommodates up to 255 segments per pipe network.

Description S-PIPE computes optimum sizes for hot and cold service water pipe systems as well as the system's total pressure drop. Optimum pipe sizes are computed according to the maximum allowable pressure drop and the maximum allowable velocity. These constraints can be changed for any pipe segment. Factors for ASHRAE tables and curves stored within the program include:

- Demand weights in fixture units for all fixtures listed
- Demand gallons per minute curves for both flush valve and flush tank systems
- Pressure drop tables for all pipe sizes and pipe materials
- Friction loss factors for all standard types of fittings.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002

ELITE SOFTWARE DEVELOPMENT INC

PO Drawer 1194
 Bryan TX 77806

(409) 775-1782

► Short Circuit Calculation Program

An electrical engineering program that computes the maximum short-circuit current available at all nodes in a power distribution network.

Price \$495 purchase

Environment Computers: IBM Personal Computer; microcomputer running under CP/M. Main storage: 56K bytes. Source language: not specified

Capabilities Per-unit calculations for buses. Exact motor contribution.

Description The Short Circuit Calculation Program computes the maximum short-circuit current with and without motor contributions at each node in the network. The per-unit method is used so that buses may have different voltages throughout the network. All the resistance and reactance data for cables, bus ducts, switches, and current transformers are stored on disk and accessed by the program. The user may also define component data or edit and revise the existing component data. Depending on the computer's memory size, the program will allow up to 250 buses to be defined in the one-line diagram. The program can also calculate the exact motor contribution anywhere in the circuit. Up to 10 motors are allowed in a network.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002

ELITE SOFTWARE DEVELOPMENT INC

PO Drawer 1194
 Bryan TX 77806

(409) 775-1782

► U-Factor Calculation Program

A structural engineering program that allows HVAC designers to generate U-factors (heat transfer coefficients) for building structures

Price \$99 purchase

Environment Computers: IBM Personal Computer; microcomputers running under CP/M. Main storage: 56K bytes. Source language: not specified.

Capabilities Menu-driven operation. User-defined and resident library of building materials. Report generation.

Description The U-Factor Calculation Program incorporates the procedures presented in the ASHRAE 1981 *Fundamentals*. More than 200 types of building materials, as well as all types of air film and internal air space resistances can be accommodated. The program can simultaneously allow selection of materials from both the user-defined library and the built-in library. Building materials may be selected by absolute resistance or by resistance per inch of thickness. The U-Factor program can also account for the nonuniform application of such building components as furrings. All input and output data is stored on disk for later use and reference.

The reports list the general project information and then tabular listings of the building materials in each wall and roof section. An unlimited number of wall and roof sections can be defined for one project. The R-value for individual components of a given section is printed as well as the total U-factor for each section.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002



ENERGY INC

PO Box 736
Idaho Falls ID 83402

(208) 529-1000

► BETH

A mechanical engineering program that analyzes power plant performance

Price \$8,000 purchase

Environment Computers: IBM Personal Computer; Apple II+, IIe; any microcomputer running under CP/M and supporting FORTRAN. Main storage: 128K bytes. Source language: FORTRAN.

Capabilities Menu-driven operation. Monitors component and system performance.

Description BETH enables engineers to evaluate power plant performance. It provides such information as steam tables, gas properties, *x-y* plotting, steam turbine calculations, gas turbine calculations, boiler efficiency, combustion calculations, and psychrometric tables.

Twenty-one modular analysis packages monitor component and system performance as well as test engineering analysis requirements commonly encountered at steam-generating facilities. Performance and analysis results are displayed in tabular format, and *x-y* trend plotting is supported.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002

ENTEK SCIENTIFIC CORP

4480 Lake Forest Dr
Suite 316
Cincinnati OH 45242

(513) 563-7500

► Entek Mapping System (EMAP)

A mechanical engineering system used for three-dimensional mapping

Price \$3,500–\$10,000 purchase

Environment Computers: Hewlett-Packard HP Series 80 microcomputers. Main storage: not specified. Source language: not specified.

Capabilities Generates a three-dimensional system map of speed-spectrum, time-spectrum, or temperature-spectrum data. Diagnoses rotating equipment. Evaluates flow noise. Plots measured or analytical data. Computes spectrum amplitude versus frequency and the appropriate third-axis parameter. Stores data base for later use.

Description EMAP is a mechanical engineering system that generates a three-dimensional system map of speed-spectrum, time-spectrum, or temperature-spectrum data. The program is used with either a single- or dual-channel spectrum analyzer interfaced in a three-dimensional form. Data from one channel is used to compute the spectrum amplitude versus frequency, and data from the second channel is used to provide the appropriate third-axis parameter. The actual measurement

procedure involves sampling and calculating the frequency spectrum from one channel and tagging the spectrum with the operating parameter from the second channel. The data base from the memory unit is transferred to a mass storage device for later decoding. The data memory is erased, and the process continues until the entire operating range of the machine has been covered. Applications include diagnosis of rotating equipment, flow-noise evaluation, condition monitoring/periodic maintenance, and nonlinear temperature or time-dependent property studies. Options available include rotating system analysis, high-speed data acquisition, simultaneous dual map measurement, and tack signal enhancement units.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002

ENTEK SCIENTIFIC CORP

4480 Lake Forest Dr
Suite 316
Cincinnati OH 45242

(513) 563-7500

► Entek Modal Analysis (EMODAL)

A structural engineering system used to determine potential design flaws

Price \$3,500–\$7,000 purchase

Environment Computers: Hewlett-Packard HP Series 80 microcomputers. Main storage: not specified. Source language: not specified.

Capabilities Normalizes shape vectors. Provides three state-of-the-art methods of shape coefficient extraction, isometric and orthographic views of deformed and undeformed structure, and many checklists to verify analyzer setup. Stores measurements manually or automatically. Plots to internal CRT or external plotter. Allows user-defined titles and labels for plots.

Description EMODAL is an engineering system that enables a test/design engineer to determine potential design flaws in a product and/or optimize proposed design changes. The features include automatic normalization of shape vectors; three state-of-the-art methods of shape coefficient extraction (i.e., complex division, SD of residue, and function value extraction); isometric and orthographic views of deformed and undeformed structures; Real, Imaginary, Bode, Nyquist, Magnitude, and Phase plots of measured functions; manual or automatic storage of all measurements; numerous checklists to verify analyzer setup and to provide overall modal test guidelines; MD of curve fitting; and animation of deflection shapes. In addition, all data formats and tape files are accessible and documented to allow interfacing of user-developed programs for special operations.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002

ENTEK SCIENTIFIC CORP

4480 Lake Forest Dr
Suite 316
Cincinnati OH 45242

(513) 563-7500

► **Entek Programmable Spectrum Analyzer (EPRAN)**

An engineering system used for transforming a spectrum analyzer

Price \$1,950-\$2,500 purchase

Environment Computers: Hewlett-Packard HP Series 80 microcomputers. Main storage: not specified. Source language: not specified.

Capabilities Uses English-language commands. Provides long-term mass storage of data, digital plots with full annotation, and real and complex arithmetic operations on measured data. Tabulates measured data. Allows users to develop subroutines. Accesses user-developed programs to automatically plot custom logos and titles.

Description EPRAN is an engineering system that transforms a single- or dual-channel spectrum analyzer into a programmable instrument. EPRAN is used with a desktop computer and a spectrum analyzer. The system uses English-language commands, automated repetitive analyzer front-panel pushbutton operations, and calibration in engineering units. The system is capable of long-term mass storage of data, real and complex arithmetic operations on measured data, and control of multiple analyzers. It provides digital plots with full annotation, using the computer's internal CRT or an external digital plotter. Measured data can be tabulated.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002

ENTEK SCIENTIFIC CORP

4480 Lake Forest Dr
Suite 316
Cincinnati OH 45242

(513) 563-7500

► **Entek Sound Intensity Measurement (ESIM)**

An engineering system that performs sound-intensity measurements

Price \$3,000-\$7,000 purchase

Environment Computers: Hewlett-Packard HP Series 80 microcomputers. Main storage: not specified. Source language: not specified.

Capabilities Features three-dimensional measurement capability, vector diagrams, and surface contour plots. Corrects phase and magnitude mismatch. Provides pressure, intensity, and power field mapping. Describes sound-radiation characteristics for all or any portion of frequency range.

Description ESIM is an engineering system used with a dual-channel spectrum analyzer and desktop computer to perform two microphone sound-intensity measurements. It is then used to identify and rank noise-radiating components of a complex mechanical system. ESIM also provides three-dimensional measurement capability, vector diagrams, and surface contour plots with baseline surface for reference. Other features include phase and magnitude mismatch; built-in A-weighting curve; description of sound-radiation characteristics for all or any portion of the frequency range; pressure, intensity, and power field mappings; areas of measurement in English or metric units; number of measurement locations per set, depending on CPU memory, with a minimum of 80; and number of sets of measurements, depending on the mass storage medium, with minimum of three on HP 85 tape.

Compatibility Matrix: 216.0025.002
Features Matrix: 216.0030.002

FIRST PRINCIPLES SOFTWARE CO

PO Box 4236
Santa Rosa CA 95402

(707) 584-0321

► **HYDROL**

A hydrology program that calculates storm runoff for three recurrence levels simultaneously

Price \$300 purchase

Environment Computers: IBM Personal Computer; most computers running under CP/M. Main storage: 18K bytes for program, 64K bytes total RAM. Source language: BASIC.

Capabilities Calculates weighted average C values for storm runoff.

Description HYDROL is a hydrology program using the rational formula method that calculates storm runoff for up to three recurrence levels simultaneously. Provisions for routing through pipes, streets, natural mountain channels, natural valley channels, and designed channels are included. The user can choose to input rainfall intensities, or, using customized formulas, the program can automatically calculate intensities. HYDROL calculates weighted average C values for areas within the hydrologic study and keeps a running total of the area. After the initial times of concentration are input, new times are automatically carried over to the next section.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.002



FIRST PRINCIPLES SOFTWARE COPO Box 4236
Santa Rosa CA 95402

(707) 584-0321

► P + M

A civil engineering program that helps predict the water surface profile through bridge piers or a culvert in a channel

Price \$125 purchase

Environment Computers: IBM Personal Computer; most computers running under CP/M. Main storage: 64K bytes. Source language: BASIC.

Capabilities Calculates and plots three curves with output in table form.

Description P + M is a pressure plus momentum software package that predicts a water surface profile through obstructions in a channel. The obstructions can be bridge piers or a culvert. The geometry of the channel and flow rate are input along with information on the piers or culvert. Curves are calculated and output in a table of values. Curve 1 is for the pressure plus momentum upstream of the obstruction, curve 2 is for inside the obstruction, and curve 3 is for downstream of the obstruction. Users can then plot the three curves.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.002

FIRST PRINCIPLES SOFTWARE COPO Box 4236
Santa Rosa CA 95402

(707) 584-0321

► RWALL

A civil engineering program that performs computer-aided design of cantilever retaining walls

Price \$350 purchase

Environment Computers: IBM Personal Computer; most computers running under CP/M. Main storage: 64K bytes. Source language: BASIC.

Capabilities Designs stem wall and footing. Calculates effective depth and areas of steel, shears, moments, and soil pressures.

Description RWALL is a computer-aided design program for cantilever retaining walls that uses the Working Stress Design Method, according to the Uniform Building Code. Construction material can be either poured-in-place concrete or masonry block. The program supports interactive design of both the stem wall and the footing. External loading conditions include axial loads, sloped backfills, and surcharges. Walls can be tapered. Factors of safety for overturning and sliding, as well as shear key design, are included.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.002

FIRST PRINCIPLES SOFTWARE COPO Box 4236
Santa Rosa CA 95402

(707) 584-0321

► TBACK

A civil engineering program that develops backwater curves using the standard step method

Price \$200 purchase

Environment Computers: IBM Personal Computer; most computers running under CP/M. Main storage: 64K bytes. Source language: BASIC.

Capabilities Computes normal and critical depths of backwater.

Description TBACK develops backwater curves in trapezoidal, triangular, or rectangular open channels using the standard step method. The program computes normal and critical depths and advises the user regarding upstream or downstream control.

TBACK also calculates:

- Velocities in each section
- Percentage change in velocities
- Pressure jump momentum to locate hydraulic jumps.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.002

FIRST PRINCIPLES SOFTWARE COPO Box 4236
Santa Rosa CA 95402

(707) 584-0321

► TRSFLOW

A civil engineering program that performs pipe network analyses using the Hardy-Cross method

Price \$200 purchase

Environment Computers: IBM Personal Computer; most computers running under CP/M. Main storage: 64K bytes. Source language: BASIC.

Capabilities Calculates head values and flow.

Description TRSFLOW is a hydraulic model based on the Hardy-Cross method of pipe network analysis. During steady-state (nonvarying) flow from several hydrants, the program uses the Hardy-Cross method to calculate the water pressure and flow throughout the system by using an iterative trial-and-error routine. Each loop's flow is adjusted successively until the system's friction criteria are satisfied.

TRSFLOW requires that the following system parameters be known:

- Length, diameter, and type of pipes
- Pump curves (head versus flow) for all pumps
- Fixed head elevations
- Expected outflow at pipe junctions

TRSFLOW calculates head values at up to 150 pipe junctions and the flow through 150 system elements. Within the 150 elements, TRSFLOW can handle 10

pumps and 10 fixed head conditions. TRSFLOW allows the system designer to accurately determine pump and pipe sizes for any network.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.002

GALLIE COMPUTER

4726 W 13 St
Suite 2
Chicago IL 60650

(312) 863-8591

► UNITS! UNITS! UNITS!

A data management program that converts unit measures into equivalent quantities

Price \$30 purchase

Environment Computers: IBM Personal Computer. Main storage: 64K bytes. Source language: BASIC.

Capabilities Unit conversion tables. User-defined units.

Description UNITS! UNITS! UNITS! is a program designed for instant conversions of measures in all disciplines. The program creates comprehensive, changeable, printable tables for overview of all applicable units. Most known units in world use are included (more than 500 types), and users can define special units for applications as needed. A rates command handles units-per-unit calculations instantly.

The program accommodates many measures, including volume, length, area, weight, mass, heat, currencies, energy, work, conductivity, speed, viscosity, fractions and multiples, acceleration, electricity, angles, density, torque, pressure, force per length, flow, and light.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.002

GEOSTAT SYSTEMS INTERNATIONAL

PO Box 1193
Golden CO 80402

(303) 277-0070

► COMPOSITE

A mining engineering program that standardizes sample lengths of drill hole assay values

Price \$1,100 purchase

Environment Computers: IBM Personal Computer and Personal Computer AT; Corona Personal Computer; COMPAQ Plus. Main storage: 192K bytes. Source language: FORTRAN.

Capabilities Two compositing techniques.

Description COMPOSITE is designed to the grade characteristics of composites (i.e., samples of equal length along the drill holes). The program can use either of the two basic compositing techniques: dividing the drill hole at equal intervals starting from the collar or dividing the drill hole in intercepts between equally

spaced section planes (bench compositing).

COMPOSITE options include the treatment of gaps, the ability to use a varying density or ore recovery in the weighting function, a metric/English units selector, the ability to composite up to six grade values at the same time, a minimum or maximum composite length flag, and another flag for maximum deviation with perpendicular to benches.

The program uses a typical drill hole data file with a collar coordinate record, several deviation records, and several assay interval records for each drill hole. An unlimited number of drill holes can be processed in the same run.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.002

GOLDEN STATE BUSINESS SYSTEMS

1910 P St
Sacramento CA 95814

(916) 441-2917

► SERCAL

An electrical engineering system for calculating the size of electrical services

Price \$300 purchase

Environment Computers: Hewlett-Packard HP 83 and HP 85. Main storage: 16K bytes. Source language: not specified.

Capabilities Produces forms designed for submittal to building-inspection and permitting agencies. Provides forms that aid designers in alternative methods of service to a building. Able to enter a complete list of electrical equipment or an assumed number of volt-amperes per square foot for preliminary studies. Performs electrical calculations.

Description SERCAL is an engineering system that calculates the size of electrical services to commercial buildings. It is designed for architects, contractors, engineers, plan checkers, and others involved in the building industry. The program is simple to use, even for new users. It produces forms containing complete documentation of the building's electrical service requirements, conductor and conduit size, panel size, and over-current device setting for submittal to building-inspection and permitting agencies. It also produces forms that aid designers in considering alternative ways of providing service to a building. Calculations are traceable to the National Electrical Code. Input options include the ability to enter a complete list of electrical equipment or simply an assumed number of volt-amperes per square foot for preliminary studies. Electrical calculations include sizing feeders and branch circuits.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.002



GRAPHIC SOFTWARE SYSTEMS

25117 SW Pkwy
PO Box 673
Wilsonville OR 97070

(503) 682-1606

► GSS-KERNEL

A graphics system based on the ISO GKS graphics standard

Price Vendor declined to provide.

Environment Computers: most 8- and 16-bit microcomputers. Main storage: 25K bytes. Source language: FORTRAN.

Capabilities Allows user to create graphics applications. Permits user to draw lines, markets, filled polygons, and text. Supports access to a large set of graphics-device drivers.

Description GSS-KERNEL is a graphics system based on the ISO GKS graphics standard up to level 1a. It aids programmers and system builders in creating graphics applications. GSS-KERNEL is independent of both machine and graphics devices. The user can draw lines, markets, filled polygons, and text on a graphics device. A variety of graphics-device drivers is also available.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

GRAPHIC SOFTWARE SYSTEMS

25117 SW Pkwy
PO Box 673
Wilsonville OR 97070

(503) 682-1606

► GSS-PLOT

A graphics system that generates two-dimensional plots

Price \$500 purchase

Environment Computers: most 8- and 16-bit microcomputers. Main storage: 25K bytes. Source language: FORTRAN.

Capabilities Generates two-dimensional plots. Allows user control over presentation of charts. Access to a large set of graphics-device drivers.

Description GSS-PLOT is a graphics system that enables programmers and system builders to easily generate two-dimensional plots, such as bar graphs, line graphs, step plots, histograms, pie charts, scatter charts, stick charts, and log scale charts. The user has control of color, axes, type, axes labeling, scale, line patterns, and cross-hatching. GSS-PLOT is independent of machine and graphics devices. Access to a variety of graphics-device drivers is available.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

GRAPHIC SOFTWARE SYSTEMS

25117 SW Pkwy
PO Box 673
Wilsonville OR 97070

(503) 682-1606

► GSS-4010

A graphics system for terminal emulation capabilities

Price \$500 purchase

Environment Computers: most 8- and 16-bit microcomputers. Main storage: 45K bytes. Source language: FORTRAN.

Capabilities Converts a graphics microcomputer into a terminal compatible with PLOT 10. Emulates a Tektronix 4010, 4012, or 4014.

Description GSS-4010 is a graphics system that can convert a graphics-capable microcomputer into a terminal compatible with PLOT 10. SAS/graph and Tella-graph are examples of mainframe graphics software packages that can be used with GSS-4010. The system is also capable of precise emulation of a Tektronix 4010, 4012, or 4014.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

HEWLETT-PACKARD

Personal Computer Division
1010 NE Circle Blvd
Corvallis OR 97330

(503) 757-2000

► Graphics Presentations Application Pac

A graphics system for presentation-quality text and graphics

Price \$200 purchase

Environment Computers: Hewlett-Packard HP 83 and HP 85. Main storage: 16K bytes. Source language: not specified.

Capabilities Provides three character styles, variable letter sizes, four colors, and six batching techniques. Creates slides. Generates text and charts on acetate or paper. Provides editing and storage features.

Description Graphics Presentation Application Pac is a system that provides easy and rapid generation of text and charts for professional-quality reports and presentations on acetate or paper. In addition to slide creation, the system also provides editing features and storage capability. In the Text Mode the system allows nine letter sizes, three type styles, four pen colors, three alternative highlighting capabilities, and several special characters—including Greek and European characters. It also produces pie charts with 2 to 25 slices per pie, six batching types, 15 character labels, percentage labeling, and 32-character titles and subtitles; bar charts with normal, clustered, or stacked bars, one to five bars, and axes labels; and line charts with 2 to 25 points, six line types, axes labels, and 32-character titles and subtitles.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

HEWLETT-PACKARD

Personal Computer Division
1010 NE Circle Blvd
Corvallis OR 97330

(503) 757-2000

► Graphics Presentations Pac

A graphics system that generates graphics from numeric data

Price \$250 purchase

Environment Computers: Hewlett-Packard HP 86 and HP 87. Main storage: 16K bytes. Source language: not specified.

Capabilities Allows user to create text, line, bar, and pie charts. Able to do line and arc drawing. Creates charts on large graphics display. Plots charts on paper or on acetate.

Description Graphics Presentations Pac is a system that creates attractive, understandable, and professional graphics information from numeric data. Charts are created on a large graphics display and then plotted on any HP plotter. Charts may be plotted on paper or on acetate. The system produces text charts, allowing for six character styles in nine sizes and several foreign character sets. Line and arc drawing, an important feature of text charts, allows easy creation of organization charts and time lines. The system allows for creation of line charts of up to six plotted lines on a single chart and up to 24 points to each line; bar charts with normal, stacked, or clustered type, negative values, and hatching in several styles of filled-in solid colors; and pie charts with up to 24 slices, each of which may be hatched or solid filled.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

HEWLETT-PACKARD

Personal Computer Division
1010 NE Circle Blvd
Corvallis OR 97330

(503) 757-2000

► Surveying Application Pac

A surveying application system for making fundamental computations

Price \$95 purchase

Environment Computers: any Hewlett-Packard HP Series 80 microcomputer. Main storage: 16K bytes. Source language: not specified.

Capabilities Allows user to reduce field data for traverses, inverses, and sideshots, including slope distances and curved slides. Makes traverse adjustments by compass, transit, or Crandall's Rule. Determines areas and distances traversed using closure routines. Calculates coordinate transformations, parameters of circular

curves, horizontal curve layout, vertical curves, and grades. Computes earthwork volume.

Description Surveying Application Pac is a group of engineering programs used to aid surveyors in many of their fundamental computations. The package provides user access between programs without losing stored data. It supports up to 150 traverse points in HP 83 and HP 85 personal computers, using 16K bytes of memory. These points can be entered, edited, or recalled for future use.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

HEWLETT-PACKARD

Personal Computer Division
1010 NE Circle Blvd
Corvallis OR 97330

(503) 757-2000

► Waveform Analysis Application Pac

A waveform analysis system used in electrical engineering

Price \$95 purchase

Environment Computers: any Hewlett-Packard HP Series 80 microcomputer. Main storage: 16K bytes. Source language: not specified.

Capabilities Provides Hanning, print, plot, and edit functions. Handles power spectrum, autocorrelation, cross-correlation, cross-power, convolution, change domain, modulation, F(s) equal, and F(s) unequal. Accepts single function as input.

Description Waveform Analysis Application Pac is an electronics engineering package that supports waveform analysis in acoustics, bioengineering, vibration analysis, and image processing. It allows the user to analyze up to 512 data points with the HP 83 and 85 and up to 16,384 data points with the HP 86 and 87 using 160K memory. It can also accommodate two separate functions using double data input, with each function characterized by up to 256 data points or 1,024 data points using 32K memory. HP 86 and 87 software offers increased data capacity, larger display graphics, and 80-column report layouts.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

HYDRASOFT

322 E 200 N
American Fork UT 84003

(801) 756-8313

► HYDRAL

A civil engineering program that computes water depth in channels

Price \$195 purchase



Environment Computers: IBM Personal Computer. Main storage: 64K bytes. Source language: BASIC.

Capabilities Designs and evaluates trapezoidal, rectangular, triangular, and circular channels.

Description HYDRAL computes water depth in any channel, including natural channels, under either uniform or critical flow conditions.

HYDRAL solves for normal discharge, normal depth, critical discharge, critical depth, pipe diameter (in commercially available sizes), or trapezoidal channel bottom width. The program can also calculate velocity, area, wetted perimeter, top width, Froude number, and flow regime.

Compatibility Matrix: 216.0025.003

Features Matrix: 216.0030.003

INSTITUTE OF INDUSTRIAL ENGINEERS

25 Technology Pk/Atlanta
Norcross GA 30092

(404) 449-0460

► Production Control

An industrial engineering program that performs various production control activities

Price \$175; \$140, IIE members purchase

Environment Computers: IBM Personal Computer; Apple II; Tandy TRS-80. Main storage: 64K bytes. Source language: BASIC.

Capabilities Queueing analysis. Assembly line balancing. Scheduling.

Description Production Control is designed specifically for the personal computing environment. The system consists of four program modules:

- **Crew Size Analyzer**—Determines the appropriate number of servers for a service situation, using queueing analysis
- **Assembly Line Balancing**—Applies a COMSOAL (computer method of sequencing operations for assembly lines) approach to iteratively solve the assembly line balancing problem, which can be described by a precedence diagram using up to 100 activities
- **Line of Balance Analysis**—Uses a Gantt chart to determine the likelihood of meeting the schedule in consideration of the work performed to date
- **Setup Time Sequencing**—Uses a COMSOAL approach to analyze production facilities that make a variety of products; determines the sequence of jobs to best minimize overall setup costs.

Compatibility Matrix: 216.0025.003

Features Matrix: 216.0030.003

KELIX SOFTWARE SYSTEMS

425 Davenport Dr
Baton Rouge LA 70808

(504) 769-6785

► Chemical Engineering Pac 1

A chemical engineering problem-solving package

Price \$295 purchase

Environment Computers: Hewlett-Packard HP 85A. Main storage: 32K bytes. Source language: not specified.

Capabilities Solves interchangeably for flow rate, pressure drop, or pipe diameter. Accounts for fittings and valves. Determines the equilibrium and temperature for ideal solutions. Calculates (V/F) and product compositions.

Description Chemical Engineering Pac 1 is an engineering package that aids the chemical or petrochemical-industry user in solving a variety of time-consuming problems that arise in the design or troubleshooting of a chemical plant. The package includes the following programs: Fluid Flow Analysis; Equations of State-Ideal Gas or Redlich-Kwong; Dew Point and Bubble Point Calculations; Single State Equilibrium Flash Calculations; Isenthalpic Single State Equilibrium Flash Calculations; Packed Column Analysis; McCabe-Thiele Analysis (which solves interchangeably for feed, distillate and bottoms compositions, thermal condition of feed, reflux ratio, and Murphree tray efficiency); and Simultaneous Non-Linear Equations. Twelve equations may be solved with standard memory.

Compatibility Matrix: 216.0025.003

Features Matrix: 216.0030.003

KELIX SOFTWARE SYSTEMS

425 Davenport Dr
Baton Rouge LA 70808

(504) 769-6785

► Multicomponent Distillation

An engineering system used for analysis of distillation columns

Price \$150 purchase

Environment Computers: Hewlett-Packard HP 85A. Main storage: 16K bytes. Source language: not specified.

Capabilities Designs new columns. Rates existing columns. Allows for user-created data file to store physical-property constants of frequently used components. Calculates distillate and bottom rates and compositions.

Description Multicomponent Distillation is an engineering system that performs many of the calculations necessary for the analysis of multicomponent-multifeed distillation columns. The column supports up to five feed streams and as many as 15 components. Calculations are based on the Fenske-Underwood-Gilliland

short-cut method. The software may be used in column design. The program calculates the distillate and bottoms rates and compositions, minimum number of theoretical stages, minimum column efficiency, feed-plate location, maximum vapor velocity, minimum column diameter, and condenser and reboiler temperatures and heat duties. A plot of the number of theoretical stages versus reflux ratio is generated.

The software is also used in column rating. The user may allow for nonideality in both the liquid and vapor phases. For nonideal liquid, Scatchard-Hilderbrand regular solution equations are used to determine the liquid-phase activity coefficients. For nonideal gas, the Redlich-Kwong equation of state is used to calculate fugacity coefficients. Multicomponent Distillation also allows the creation of a customized data file to store physical-property constants of frequently used components.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

KELIX SOFTWARE SYSTEMS

425 Daventry Dr
Baton Rouge LA 70808

(504) 769-6785

► Adiabatic Flash Calculation

A flash process analysis system used in chemical engineering

Price \$75 purchase

Environment Computers: Hewlett-Packard HP 85A. Main storage: not specified. Source language: not specified.

Capabilities Calculates the mole fraction of the feed vaporized. Determines the equilibrium temperature for the flash process. Computes the liquid and vapor product compositions. Prompts user for the feed composition, the feed enthalpy, and a first guess for the equilibrium temperature.

Description Adiabatic Flash Calculation is a chemical engineering program that calculates mole fraction of the feed vaporized, the equilibrium temperature, and the resulting liquid and vapor product compositions for a flash process in which no heat is supplied to the system. Inputs include the equilibrium ratio between phases, the liquid enthalpy, and the vapor enthalpy, each specified as a function of temperature for each component. The output includes the results of each iteration of the simultaneous material and energy balance convergence process.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

KELIX SOFTWARE SYSTEMS

425 Daventry Dr
Baton Rouge LA 70808

(504) 769-6785

► Dew Point and Bubble Point Calculations

A multicomponent ideal solution analysis system used in chemical engineering

Price \$50 purchase

Environment Computers: Hewlett-Packard HP 85A. Main storage: not specified. Source language: not specified.

Capabilities Calculates dew point and bubble point. Determines the equilibrium temperature for a multicomponent ideal solution. Handles an ideal solution of up to 25 components.

Description Dew Point and Bubble Point Calculations is a chemical engineering program that performs the necessary trial and error calculations to determine the equilibrium temperature for an ideal solution of up to 25 components. It prompts the user for the type of calculation, the vapor or liquid composition, and a first guess for the dew-point or bubble-point temperature. The system displays the results of each iteration.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

KELIX SOFTWARE SYSTEMS

425 Daventry Dr
Baton Rouge LA 70808

(504) 769-6785

► Equations of State

A chemical engineering equation-solving system

Price \$40 purchase

Environment Computers: Hewlett-Packard HP 85A. Main storage: not specified. Source language: not specified.

Capabilities Allows the user to select either the ideal gas or Redlich-Kwong equation of state, which requires both the critical temperature and critical pressure. Solves interchangeably for pressure, volume, number of moles, gas constant, and temperature.

Description Equations of State is a chemical engineering program that provides both the ideal gas and Redlich-Kwong equations of state. It solves interchangeably for pressure, volume, number of moles, gas constant, and temperature. The Equations of State user manual provides values of the universal gas constant, as well as critical properties of 45 common substances.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003



KELIX SOFTWARE SYSTEMS425 Davenport Dr
Baton Rouge LA 70808

(504) 769-6785

► Flow Network Analysis

A fluid piping network analysis system used to determine flow rates and pressure

Price \$500 purchase

Environment Computers: Hewlett-Packard HP 87. Main storage: not specified. Source language: not specified.

Capabilities Handles any fluid of consistent density and viscosity. Accounts for fittings and valves, using the multiple-K method. Calculates frictional factor for the laminar, transitional, and turbulent flow regimes, using the Churchill equation.

Description Flow Network Analysis is an engineering program that determines unknown nodal pressures and internal flow rates for an arbitrary N-node pipe network. Fittings, valves, and pipe surface roughness are menu selected. The entire network data set can be stored on tape or disk for future analysis.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

KELIX SOFTWARE SYSTEMS425 Davenport Dr
Baton Rouge LA 70808

(504) 769-6785

► Fluid Flow Analysis

A fluid flow analysis system used to measure flow rate, pressure, and size of pipe

Price \$75 purchase

Environment Computers: Hewlett-Packard HP 85A. Main storage: not specified. Source language: not specified.

Capabilities Prompts common values of pipe roughness. Prints number of velocity heads on request. Examines new cases without reentering unchanged parameters after the initial calculation.

Description Fluid Flow Analysis is a chemical engineering program that solves interchangeably for flow rate, pressure drop, and pipe diameter. The user can calculate in a variety of units—both English and metric. The system supports laminar, transitional, and turbulent flow.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

KELIX SOFTWARE SYSTEMS425 Davenport Dr
Baton Rouge LA 70808

(504) 769-6785

► Isothermal Flash Calculation

An equilibrium flash calculation system used in chemical engineering

Price \$50 purchase

Environment Computers: Hewlett-Packard HP 85A. Main storage: not specified. Source language: not specified.

Capabilities Determines the mole fraction of the vaporized feed. Computes the liquid and vapor product compositions. Converges the Rachford-Rice equation to less than 10^{-6} , using a second-order Newton-Raphson convergence scheme.

Description Isothermal Flash Calculation is a chemical engineering program that calculates the mole fraction of the feed vaporized and the resulting liquid and vapor product compositions. Inputs include the number of components, the mole fraction of each component in the feed, and the equilibrium ratio between phases for each component at the flashing temperature.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

KELIX SOFTWARE SYSTEMS425 Davenport Dr
Baton Rouge LA 70808

(504) 769-6785

► McCabe-Thiele Analysis

A chemical engineering program used in distillation-column analysis

Price \$75 purchase

Environment Computers: Hewlett-Packard HP 85A. Main storage: not specified. Source language: not specified.

Capabilities Accepts relative volatility as a constant or as any function of mole fraction low boiler in the liquid. Solves automatically for the seventh variable if six of the variables are known. Graphically produces a McCabe-Thiele diagram when solving for the number of trays.

Description McCabe-Thiele Analysis is a chemical engineering program used to analyze distillation columns involving binary or pseudobinary systems. Variables include the number of stripping and rectification trays, mole fraction low boiler in the feed, mole fraction low boiler in the distillate, mole fraction low boiler in the bottoms, thermal condition of the feed, reflux ratio, and average Murphree tray efficiency.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

KELIX SOFTWARE SYSTEMS425 Daventry Dr
Baton Rouge LA 70808

(504) 769-6785

► Packed Column Analysis

A chemical engineering system used in packed-column analysis

Price \$60 purchase**Environment** Computers: Hewlett-Packard HP 85A. Main storage: not specified. Source language: not specified.**Capabilities** Solves the Sherwood-Shipley-Holloway equation for superficial gas flooding rate, using a second-order Newton-Raphson convergence scheme. Calculates the column diameter so that the gas velocity is 50 percent of flooding.**Description** Packed Column Analysis is a chemical engineering program that determines packed-column diameter and flooding velocities for gas-liquid systems. The inputs include the packing fractional void space, the packing specific surface area, the mass flow rate of the gas, the gas density, the superficial flow rate, the liquid density, and the liquid viscosity and centipoise.**Compatibility Matrix:** 216.0025.003
Features Matrix: 216.0030.003**KELIX SOFTWARE SYSTEMS**425 Daventry Dr
Baton Rouge LA 70808

(504) 769-6785

► Simultaneous Non-Linear Equations

A chemical engineering program used in equation solving

Price \$95 purchase**Environment** Computers: Hewlett-Packard HP 85A. Main storage: 16K bytes. Source language: not specified.**Capabilities** Solves linearized system at each iteration, using a Newton-Raphson convergence scheme and a modified Yauss-Jordan reduction. Prompts user for the number of equations, the maximum acceptable error, the maximum number of iterations, and a first guess for each of the unknowns.**Description** Simultaneous Non-Linear Equations is a chemical engineering program that allows the user to solve a system of up to 12 simultaneous equations with the basic 16K bytes of memory and up to 20 equations with a computer that has 32K bytes of memory.**Compatibility Matrix:** 216.0025.003
Features Matrix: 216.0030.003**LAND INNOVATION**PO Box 50662
Dallas TX 75250

(414) 354-0243

► CivilSoft

A civil engineering system used in surveying and site design

Price \$425 purchase**Environment** Computers: Hewlett-Packard HP 85A computer. Main storage: 16K bytes. Source language: not specified.**Capabilities** Plots at any scale and any size without using an external plotter. Allows user-chosen file name and size. Stores plots and permits recall. Provides legal-description program and a complete vertical-design section.**Description** CivilSoft is a civil engineering system that includes all the basic COGO-type operations. It is a general surveying and site-design program with a plotting section that allows the user to plot at any scale and at any size without using an external plotter. Point-storage capability is 999 maximum in internal memory. The system allows user-chosen file names and sizes. Plots can be stored on tape and recalled for revisions or additional plots at other scales. The legal-description program provides high-speed legal writing by inverting between computer points. The vertical-design section includes vertical traversing and inverting, vertical curve design, profile plotting, earthwork with cut and fill separated, and pipe and ditch design. CivilSoft also provides a complete radial surveying program.**Compatibility Matrix:** 216.0025.003
Features Matrix: 216.0030.003**LIFEBOAT ASSOCIATES**1651 Third Ave
New York NY 10028

(212) 860-0300

► WIREMASTER

A program design tool for the layout, design, and construction of electronic components

Price \$200 purchase**Environment** Computers: any Zilog Z80-based system. Main storage: 42K bytes. Source language: BASIC.**Capabilities** Layout and design for wrapped wire. Error checking and troubleshooting of printed circuit boards. Input derived directly from schematics. Output consists of parts list, error list, wire list, and pin cross-reference guide.**Description** WIREMASTER is a program designed to facilitate the layout, design, and construction of electronic components, primarily for wrapped-wire techniques.**Compatibility Matrix:** 216.0025.003
Features Matrix: 216.0030.003

M. HUDIS & ASSOCIATES2360 Professional Dr
Santa Rosa CA 95401

(707) 542-8795

► BACWAT—Backwater in Prismatic Channels

A civil engineering system used to determine the backwater in any prismatic channel

Price \$250 purchase

Environment Computers: Hewlett-Packard HP 85A and HP 86. Main storage: not specified. Source language: not specified.

Capabilities Uses Standard Step Method and Mannings equation. Calculates the backwater in any prismatic channel. Solves for various curves. Advises the operator on whether the control is normally upstream or downstream.

Description BACWAT is a civil engineering system that uses the Standard Step Method and Mannings equation to determine the backwater in any prismatic channel. The program will solve for an M1, M2, M3, S1, S2, and S3 curve. It will first calculate the normal and critical depths to determine whether the slope is gentle or steep—and hence whether the control is normally upstream or downstream. The program also solves for the unknown depth. All solutions are accomplished by iteration.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

M. HUDIS & ASSOCIATES2360 Professional Dr
Santa Rosa CA 95401

(707) 542-8795

► HYDRAU

A civil engineering system for fluid measurement

Price \$400 purchase

Environment Computers: Hewlett-Packard HP 85A and HP 86. Main storage: not specified. Source language: not specified.

Capabilities Determines losses in a storm drainpipe system under pressure. Calculates junction losses at catch basin and junction structures. Allows entering of number or name as junction-structure identifier. Accepts all flows in cubic feet per second. Displays answers on the CRT or prints final answer.

Description HYDRAU is a civil engineering system that calculates losses in a storm drainpipe system under pressure and junction losses at catch basin and junction structures. Two storms may be solved simultaneously. The system permits the entering of a number or name to identify the junction structure. All flows are entered in cfs. Any Q into the junction structure is referred to by a

lowercase q . The angle of the pipe entering the junction—or the deflection angle—is the angle between the center line of the outflow pipe and the projected center line of the inflow pipe. The k value solved for is junction loss k . All k losses are represented as k in the formula $k(V^2/2g)$. All answers will be displayed on the CRT or printed out.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

M. HUDIS & ASSOCIATES2360 Professional Dr
Santa Rosa CA 95401

(707) 542-8795

► HYDROL

An engineering system for routing watershed flows

Price \$400 purchase

Environment Computers: Hewlett-Packard HP 85A. Main storage: configuration dependent. Source language: not specified.

Capabilities Calculates new times of concentration and any resulting Q from the formula $Q=CI\Delta K$. Provides printouts for street and rolled curb sections. Supports variable C values. Calculates a weighted C for the whole area.

Description HYDROL is a civil engineering system, based on a rational formula of $Q=CI\Delta K$, that routes flows down a watershed and calculates new times of concentration and any resulting Q. Input includes the initial time of concentration, K, number of acres of the initial area, the runoff coefficient, and the type of conveyance through which the flows are to be routed. Printouts for street and rolled curb sections will also indicate the depth of flow in the gutter. The system allows for variable C values at any time and calculates a weighted C for the entire area.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

M. HUDIS & ASSOCIATES2360 Professional Dr
Santa Rosa CA 95401

(707) 542-8795

► LTrans

An engineering system for measuring upstream and downstream flow

Price \$150 purchase

Environment Computers: Hewlett-Packard HP 85A. Main storage: not specified. Source language: not specified.

Capabilities Solves for an open channel transition. Uses the Standard Step Method. Advises operator of the upstream and downstream conventions. Calculates critical depth in both the upstream and downstream sections.

Description LTrans is a civil engineering system that solves open channel transitions by the Standard Step Method. An iterative program, it advises the operator of upstream and downstream conventions. Requested input includes flow quantities, upstream and downstream bottom width, channel side slopes (Z), upstream and transition loss (K) in the formula $K AV^2/2g$, and transition length and slope. Critical depth in both the upstream and downstream sections is calculated to enable the operator to determine the type of flow being considered. The system also calculates transitions from trapezoidal to rectangular or V-bottom channels.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

M. HUDIS & ASSOCIATES

2360 Professional Dr
 Santa Rosa CA 95401

(707) 542-8795

► PIPWAT

An engineering system for fluid measurement

Price \$300 purchase

Environment Computers: Hewlett-Packard HP 85A. Main storage: not specified. Source language: not specified.

Capabilities Solves for backwater in a round open channel and M1, M2, M3, S1, S2, and S3 curves. Solves by iteration process.

Description PIPWAT is a civil engineering system that solves for backwater in a round open channel and for M1, M2, M3, S1, S2, and S3 curves. The program advises the operator on the maximum depth required upstream at the entrance to the pipe, assuming an entrance loss of $.2V^2/2g$. It also alerts the operator when flow depths equal or exceed .8 of the diameter of the pipe.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

M. HUDIS & ASSOCIATES

2360 Professional Dr
 Santa Rosa CA 95401

(707) 542-8795

► P + MCUL

An engineering system for fluid measurement

Price \$100 purchase

Environment Computers: Hewlett-Packard HP 85A. Main storage: 16K bytes. Source language: not specified.

Capabilities Determines hydraulic losses and resultant water surfaces in a channel. Uses pressure and momentum method. Solves only for a trapezoidal, rectangular, or V-shaped channel.

Description P+MCUL is a civil engineering system that solves for hydraulic losses and resultant water sur-

faces in a trapezoidal, rectangular, or V-shaped channel. It uses the pressure plus momentum method when open channel flows pass through a rectangular or round culvert. The system can be modified to use only an internal printer.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

M. HUDIS & ASSOCIATES

2360 Professional Dr
 Santa Rosa CA 95401

(707) 542-8795

► P + MGEN

An engineering system for fluid measurement

Price \$100 purchase

Environment Computers: Hewlett-Packard HP 85A. Main storage: 16K bytes. Source language: not specified.

Capabilities Solves for hydraulic losses. Determines resultant water surfaces. Uses pressure and momentum method.

Description P+MGEN is a civil engineering system that solves hydraulic losses and resultant water surfaces for open channel flow past bridges. It uses the pressure plus momentum method. The program can be modified to use only an internal printer.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

M. HUDIS & ASSOCIATES

2360 Professional Dr
 Santa Rosa CA 95401

(707) 542-8795

► R-WALL

A structural engineering system for measuring stress

Price \$500 purchase

Environment Computers: Hewlett-Packard HP 85A. Main storage: not specified. Source language: not specified.

Capabilities Solves for unbalanced steel design and sliding. Allows the operator to vary several factors to see how foundation pressures change. Calculates shears, moments, and steel required. Allows the designing of a shear key of any width or depth to increase safety factor of sliding.

Description R-WALL is a civil engineering system that provides complete working-stress solutions for either block or concrete retaining walls. The system solves for unbalanced steel design and sliding. The operator may vary steel working stress, axial loads applied to the top of the wall, length of footing, and distance to the face of the wall to determine how foundation pressures change. Shears, moments, and steel required in the wall and in the toe and heel members are calculated.



R-WALL also allows the operator to design a shear key of any width and depth to increase the safety factor of sliding.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

M.P.S. CO

8 N Grant Dr
Addison IL 60101

(312) 543-1748

► Earthwork, Coordinate Geometry and Ditch Hydraulics

An engineering system used in surveying and land development

Price Earthwork \$695; Coordinate Geometry \$700; Ditch Hydraulics \$75. All purchase

Environment Computers: Apple II and II+. Main storage: not specified. Source language: BASIC.

Capabilities Three separate components. Earthwork deals with cuts, fills, top soil, and structural fill. Coordinate Geometry provides 22 routines with plotting features on your screens and graphics representation of your computed lots or subdivision. Ditch Hydraulics sizes any ditch for a given Q or vice versa.

Description Earthwork, Coordinate Geometry and Ditch Hydraulics is an engineering system designed for engineering consultants, land developers, surveyors, and earth-excavating firms. It can be modified or expanded by the user.

Compatibility Matrix: 216.0025.003
Features Matrix: 216.0030.003

METCUT RESEARCH ASSOCIATES INC

3980 Rosslyn Dr
Cincinnati OH 45209

(513) 271-5100

► CUTDATA

An electronic reference system that stores, retrieves, and maintains a data base that conforms to Metcut's machining data handbook

Price \$1,000 to \$6,500 purchase (depending on data modules selected)

Environment Computers: IBM Personal Computer. Main storage: 512K bytes. Source language: BASIC.

Capabilities Unit conversions. Metal removal rates. Horsepower requirements.

Description CUTDATA™ is the computerized version of Metcut's machining data handbook. CUTDATA includes data for more than 1,500 work materials and 40 machining operations. Recommendations for cutting speeds, feed rates, tool material and geometry, and cutting fluids are provided for improving machining productivity.

The CUTDATA system is comprised of the following programs:

- **CUTDATA/SETUP**—This program is run only when CUTDATA is installed or when the constants need to be changed.
- **CUTDATA/RETRIEVE**—This program retrieves and displays data, performs unit conversions, calculates metal removal rates and horsepower requirements, and interpolates between recommended depths of cuts.
- **CUTDATA/MAINTAIN**—This program allows the user to store recommendations and handbook values in the data base. Specific cutting tool and fluid trade names can be specified along with the adjusted speeds and feeds. This feature permits users to customize CUTDATA to their shop requirements.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.003

ON-LINE INSTRUMENT SYSTEMS

Rte #2
Box 239A
Jefferson GA 30549

(404) 367-9191

► OLIS 3820 "SPECTRO"

A spectral package for data management

Price \$2,000 purchase

Environment Computers: North Star Horizon II. Main storage: 64K bytes. Source language: BASIC, ZBASIC, CPM.

Capabilities Collects, stores, or retrieves data. Manipulates data for spectra work. Provides high-speed data collection and high-resolution display subsystem.

Description OLIS 3820 "SPECTRO" is a modular software package for spectral data collection, storage/retrieval, and data manipulation. The system processes algorithms appropriate to spectra work. It is capable of high-speed data collection and has a high-resolution display subsystem that makes it suitable for automating spectrophotometers, stopped-flow work, and fluorimetry studies. Other data-handling routines include calculating difference spectra, differential spectra, and log spectra.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.003

PACSOFT

733 Seventh Ave
Kirkland WA 98033

(206) 827-0551

► Contour Mapping

An applications system for high-speed computing and contour drawing

Price \$600 purchase

Environment Computers: Hewlett-Packard HP Series 80 microcomputers. Main storage: 32K bytes. Source language: not specified.

Capabilities Computes and draws contours. Requires no operator guidance. Plots both rough and smooth contours. Reverses maps for plotting on the back of transparent media, if necessary. Provides labeling contours or spot elevations.

Description Contour Mapping is an applications system capable of high-speed computing and drawing of contours. Apart from the selection of the contour interval and map scale, no operator guidance is required. This high-performance flexible program offers both rough and smooth contours. Maps can be reversed for plotting on the back of transparent media. Features such as labeling contours or spot elevations are accessed by simple menu selections. Other applications include topographic maps, isopluvials, isohyets, isobars, isotherms, hydrographic maps, and mining.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.003

PACSOFT

733 Seventh Ave
Kirkland WA 98033

(206) 827-0551

► Earthwork

A civil engineering program for material quantities computation

Price \$4,850 purchase

Environment Computers: Hewlett-Packard HP Series 80, 9845, and 9835 microcomputers. Main storage: 32K bytes. Source language: not specified.

Capabilities Computes both cut and fill volumes between any two surfaces. Selects printed or plotted output of quantity distribution, depths, or daylight lines for a complete grading plan. Supports shrinkage and swell factors.

Description Earthwork is a civil engineering program that computes material quantities. It allows the adjustment of one surface up or down to determine the most economical balance between cut and fill or to simulate different reservoir levels. Site grading, mining, reservoir volumes, stockpile quantities, and construction applications are supported.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.003

PACSOFT

733 Seventh Ave
Kirkland WA 98033

(206) 827-0551

► Profiles & Cross Sections

A civil engineering program used for profile and cross-section design

Price \$500 purchase

Environment Computers: Hewlett-Packard HP Series 80, 9845, and 9835 microcomputers. Main storage: 32K bytes. Source language: not specified.

Capabilities At any selected interval, generates cross sections that are always perpendicular or radial to the baseline, even after the baseline is moved. Plots profiles or preprinted plan/profile sheets. Allows the system to draw the required grid.

Description Profiles & Cross Sections is a civil engineering program used to draw sections along a baseline falling anywhere within the boundary of the modeled terrain, regardless of how the field data was recorded (e.g., radially or from an aerial photo). The system offers selectable scales, line types, and labeling options and supports road design, mining, site planning, sewer design, airport design, and geophysics applications.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.003

PACSOFT

733 Seventh Ave
Kirkland WA 98033

(206) 827-0551

► Topography

An applications system used for mapping and terrain modeling

Price \$800 purchase

Environment Computers: Hewlett-Packard HP Series 80 microcomputers. Main storage: 32K bytes. Source language: not specified.

Capabilities Produces contour maps, three-dimensional projections, profiles, and cross sections. Uses randomly distributed X-Y-Z coordinates. Displays step-by-step instructions. Provides full editing capabilities and multiple options for input and output formats. Computes volumes for numerous applications.

Description Topography is an applications system that provides powerful options for performing a variety of mapping functions and computations. It is a digital terrain-modeling system capable of rapid production of finished contour maps, three-dimensional projections, profiles, and cross sections, using only randomly distributed X-Y-Z coordinates. The Earthwork option computes volumes for site preparation, surface mining, reservoirs, and dredging operations. The system offers step-by-step instructions to guide the user through program selection, data entry, and plot generation. Full ed-

iting capability allows for correction of mistakes and trying of several design alternatives without having to start from scratch. The system also provides multiple options for input and output formats.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.003

PACSOFT

733 Seventh Ave
Kirkland WA 98033

(206) 827-0551

► 3-D Projections

A civil engineering program used for three-dimensional terrain-design

Price \$350 purchase

Environment Computers: Hewlett-Packard HP Series 80, 9835, and 9845 microcomputers. Main storage: 32K bytes. Source language: not specified.

Capabilities Provides the viewing of a site from numerous vantage points by selecting different angles of rotation and tilt. Uses a vertical scale multiplier to exaggerate relatively flat surfaces or smooth out very rough surfaces.

Description 3-D Projections is a civil engineering program that provides three-dimensional view of a surface, enabling the user to see how each lot fits into the terrain and plan for scenic-view homes or to solve unusual drainage problems. The program supports land-planning, architectural, mining, and flood-routing applications.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.003

PARAMETRICS

1129 W Oak
Ft Collins CO 80521

(303) 221-3163

► Analysis and Design of Digital Filters and Discrete-Time Systems

An engineering system used to design digital filters

Price \$250 purchase

Environment Computers: Hewlett-Packard HP 85A. Main storage: 16K bytes. Source language: not specified.

Capabilities Designs digital filters. Transforms analog systems to digital systems. Analyzes the design of digital filters and discrete-time systems. Provides impulse response, frequency response, and fast Fourier transform analysis features.

Description Analysis and Design of Digital Filters and Discrete-Time Systems is an engineering system that is menu oriented, prompt driven, and interactive. Design options include automated design of finite impulse response (FIR) digital filters, automated design of

infinite impulse response (IIR) digital filters of the Butterworth and Tchebyshev variety, least-squares design of FIR filters, and transformation of analog systems to digital systems by the methods of impulse variance, covariance-invariance, and bilinear-z transformation. Filter coefficients, filter impulse response, and filter frequency response are used in computing, tabulating, and graphing when analyzing the filters. Other analysis features include impulse-response and frequency-response analysis for user-specified autoregressive moving average (ARMA) discrete-time systems, as well as fast Fourier transform (FFT) analysis of user-specified real and complex sequences of 256-point lengths.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.003

PARAMETRICS

1129 W Oak
Ft Collins CO 80521

(303) 221-3163

► Linear System Analysis and Feedback Compensator Design

An engineering system that computes, lists, and plots time-domain data

Price \$250 purchase

Environment Computers: Hewlett-Packard HP 85A. Main storage: 16K bytes. Source language: not specified.

Capabilities Accepts transfer function blocks in feed-forward and feedback configurations. Computes, lists, and plots time-domain data. Allows user to read time delay, rise time, and settling time. Provides for three types of frequency domain plots. Allows time- and frequency-domain plots to be overplotted to observe effects of parameter variations on response characteristics.

Description Linear System Analysis and Feedback Compensator Design is an engineering system that is menu oriented, prompt driven, and interactive. Transfer function blocks may be entered in feed-forward and feedback configurations to realize transfer functions for complicated linear systems. The software computes, lists, and plots impulse and step responses and allows the user to read time delay, rise time, and settling time. Frequency domain characteristics, such as Bode, Nyquist, and Root-locus plots, are computed, listed, and plotted. The system also computes and lists gain and phase margins. Time- and frequency-domain plots may be overplotted to observe effects of parameter variations on response characteristics.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.003

PHYSICAL SCIENCES INC

Research Pk
PO Box 3100
Andover MA 01810

(617) 475-9030

► FCPAK

A modular engineering program that computes exit conditions at a fuel cell anode and cathode from inlet conditions.

Price \$575 purchase

Environment Computers: IBM Personal Computer; Tandy TRS-80 Models I, III, IV; Apple II (with a Zilog Z80 microprocessor board). Main storage: 64K bytes. Source language: BASIC.

Capabilities Models phosphoric acid, molten carbonate, and alkaline fuel cells.

Description FCPAK™ consists of three program libraries, each designed to model a specific fuel cell. Each library consists of an ANOD module, a CATH module, and a PERF module. These modules describe the operation of the anode and cathode of their respective fuel cells. The PERF module describes the cell performance obtainable from each of the respective technologies.

FCPAK fuel cell libraries may be used to simulate the design point operation of the various fuel cells in a power plant configuration.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

PHYSICAL SCIENCES INC

Research Pk
PO Box 3100
Andover MA 01810

(617) 475-9030

► FLUIDPAK

A chemical engineering program that computes inlet exit conditions from either a compressor or turbine

Price \$225 purchase

Environment Computers: IBM Personal Computer; Tandy TRS-80 Models I, II, IV; Apple II (with a Zilog Z80 microprocessor board). Main storage: 64K bytes. Source language: BASIC.

Capabilities Turbocharger simulation.

Description FLUIDPAK™ consists of two program modules—COMP and TURB—that simulate a turbocharger when used together.

Both modules determine the exit conditions of flow, species composition, temperature, and enthalpy from a centrifugal compressor or from a turbine when supplied with the corresponding inlet parameters. The COMP module assumes an adiabatic compression process and the TURB module assumes an adiabatic expansion process. In addition, COMP and TURB calculate the shaft power required by the compressor and the turbine, respectively.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

PHYSICAL SCIENCES INC

Research Pk
PO Box 3100
Andover MA 01810

(617) 475-9030

► HXDESIGN

A chemical engineering program that analyzes the performance of bare-tube, shell, and tube heat exchangers

Price \$250 purchase

Environment Computers: IBM Personal Computer. Main storage: not specified. Source language: not specified.

Capabilities Calculates outlet temperature, heat exchanged, lost pressure.

Description HXDESIGN™ analyzes the performance of a bare-tube, shell, and tube heat exchangers. This program automatically provides thermodynamic properties of water or air; for alternative fluids, the codes from the PSI/Systems THERMOPAK may be used.

For an exchanger for which all construction details, inlet flow rates, and temperatures of both fluids are known, HXDESIGN calculates the outlet temperature, the heat exchanged, and the pressure lost.

HXDESIGN is suitable only for bare-tube exchangers, and both fluids must be liquids or noncondensable. The user can modify any input and rerun the calculations at any time without having to reenter all of the other data.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

PHYSICAL SCIENCES INC

Research Pk
PO Box 3100
Andover MA 01810

(617) 475-9030

► REACTORPAK

A modeling package that performs calculations for a burner, partial oxidizer, shift converter, autothermal reformer, methanol reformer, and coal gasifier

Price \$325 purchase

Environment Computers: IBM Personal Computer; Tandy TRS-80 Models I, III, IV; Apple II (with a Zilog Z80 microprocessor board). Main storage: 64K bytes. Source language: BASIC.

Capabilities Modeling. Simulation.

Description REACTORPAK™ consists of six program modules, each of which models a different reactor type.

The BURN module based on the inlet conditions calculates the exit conditions of flow, species composition, and temperature from an adiabatic combustor. The module assumes complete conversion of carbon compounds



to carbon dioxide and of hydrogen compounds to water and excess oxygen.

The PO module estimates the composition of the effluent of a combustion or partial oxidation process.

The SHICON module, when supplied with the inlet species flow rates and enthalpy, determines the effluent conditions of flow rate, species composition, and temperature from an adiabatic shift converter.

The ATR module simulates the operation of an auto-thermal reformer. In this reactor a hydrocarbon fuel is admixed with steam and air.

The CH30HR module models a methanol reformer; the hot side of the reformer is in parallel heat exchange with the catalyst bed, and the catalyst bed effluent is fed to a regenerator section.

The G361 series (fluidized bed coal gasifier) module simulates the operation of a commercial scale Westinghouse fluidized bed coal gasifier. The module determines the output gas composition and carry-over, along with the coal feed, oxygen-to-steam ratio, and oxygen-to-coal ratio of the gasifier.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

PHYSICAL SCIENCES INC

Research Pk
PO Box 3100
Andover MA 01810

(617) 475-9030

► THERMOPAK

A calculations package that computes enthalpy, temperature, and specific heat ratios

Price \$100 purchase

Environment Computers: IBM Personal Computer; Tandy TRS-80 Models I, III, IV; Apple II (with a Zilog Z80 microprocessor board). Main storage: 64K bytes. Source language: BASIC.

Capabilities Calculates thermodynamic properties.

Description THERMOPAK™ computes the enthalpy, temperature, specific heat, and ratio of specific heats for a given node species composition. The relationship between temperature and enthalpy for any species is determined by a fourth-order polynomial. The THERMOPAK module can calculate the thermodynamic properties of a stream containing up to eight species.

THERMOPAK will also calculate the value of several liquid species and mixtures of liquids. The user can calculate the enthalpy of a pure liquid by subtracting the latent heat of vaporization of the species. At present, THERMOPAK will calculate the liquid enthalpy of methanol, ammonia, and water. The program also calculates the enthalpy of two electrolytes, aqueous phosphoric acid and potassium hydroxide.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

PHYSICAL SCIENCES INC

Research Pk
PO Box 3100
Andover MA 01810

(617) 475-9030

► THERMO3

A chemical engineering package that computes the enthalpy of steam and ammonia vapors

Price \$200 purchase

Environment Computers: IBM Personal Computer; Tandy TRS-80 Models I, III, IV; Apple II (with a Zilog Z80 microprocessor board). Main storage: 64K bytes. Source language: BASIC.

Capabilities Eight-species capacity. Calculates enthalpy versus temperature.

Description THERMO3™ is a program module designed to compute the enthalpy, temperature, specific heat, and ratio of specific heats for a given node species composition. For instance, the system can account for the variation of enthalpy with pressure for water or ammonia vapor.

THERMO3 will calculate the enthalpy of water and mixtures of water with gases or the enthalpy of ammonia and mixtures of ammonia with gases. It will not calculate the enthalpy of combined water and ammonia vapors. THERMO3 uses a modified Benedict-Webb-Rubin equation of state to calculate the enthalpy versus temperature relationship for water and ammonia.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

PROCESS SYSTEMS INTERNATIONAL

RD #3 Foxchase-Friendship Rd
Vincentown NJ 08088

(609) 268-0571

► FLASHCALC 1.00

An engineering program that performs equilibrium flash calculations for chemical engineers

Price \$700 purchase

Environment Computers: IBM Personal Computer and most computers running under CP/M. Main storage: 128K bytes. Source language: BASIC.

Capabilities Component data base. Temperature and pressure calculations.

Description FLASHCALC 1.00 performs equilibrium flash calculations for multicomponent streams containing hydrocarbon and nonhydrocarbon components. The system includes an 87-component data base, input, calculation, output routines, and input/output file system. Available calculations include bubble point temperature, bubble point pressure, dew point pressure,

dew point temperature, temperature at specified pressure and liquid fraction, pressure, liquid fraction, temperature at specified pressure and enthalpy, condensing curve, and vaporization curve.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

R&L SOFTWARE

1299 Beacon St
Newton MA 02168

(617) 964-0992

► Data Evaluation Program for the HP85 (DAEP 85)

An applications system for data analysis and evaluation

Price \$195 purchase

Environment Computers: Hewlett-Packard HP 85. Main storage: 16K bytes. Source language: not specified.

Capabilities Plots data and fits experimental data to various mathematical functions by nonlinear least squares. Allows data entry from keyboard or tape. Can be modified to allow for user-supplied functions. Uses complex scaling routine to produce graphs with even increments. Accepts additional sets of data to be manipulated, fit, and/or plotted on top of the first and/or subsequent data sets.

Description DAEP 85 is an applications system written for the HP85. The program provides for entry of experimental data (up to 80 points maximum) from either the keyboard or tape. Data can be printed, displayed, stored, averaged, baseline-corrected, normalized, and/or edited. The program uses the mathematical technique of nonlinear least squares to fit the manipulated data to any one of the 10 given equations. It then prints the best-fit parameters, deviations, and statistics of the fitting procedure. The system allows for user-supplied functions. A complex scaling routine is used to produce graphs with even increments, in scientific notation if desired. Theoretical curves, using best-fit parameters, may be plotted onto the experimental data points. The program can accept additional sets of data, which can be manipulated, fit, and/or plotted on top of the first and/or subsequent data sets.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

REMEX CORP

6095 28th St SE
Suite A
Grand Rapids MI 49506

(616) 942-9800

► Radius of Curvature Well Survey Program

An engineering system used to calculate and plot direction surveys on well bores

Price \$900 purchase

Environment Computers: Hewlett-Packard HP 83 and HP 85. Main storage: 16K bytes. Source language: not specified.

Capabilities Calculates and plots direction surveys on well-bores with hde inclination. Allows user to review and edit input data. Prints output on internal printer or on a Centronics 730 impact printer.

Description Radius of Curvature Well Survey Program allows the user to calculate and plot direction surveys on well-bores with hde inclination. An interactive system, it accepts data from the keyboard or a mass storage data file. Input data may be reviewed and edited by the user before starting calculations. Output can be printed on the internal printer or a Centronics 730 impact printer. Survey data may be stored on a mass storage device and/or plotted on the CRT or the HP 7225 Vector Plotter.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

SINCLAIR OPTICS

20 N Main St
Pittsford NY 14354

(716) 381-9100

► OSLO-85

An engineering system that provides optical design and analysis

Price \$3,600 purchase

Environment Computers: Hewlett-Packard HP 85. Main storage: 16K bytes. Source language: not specified.

Capabilities Allows any surface of the system to be tilted or decentered. Supports up to 50 such surfaces. Performs paraxial and exact ray tracing, spot diagram analysis, and computation of aberration coefficients. Allows users to design their own systems. Friendly interaction between user and the program. Allows users to preprogram sequences of commands and store for execution whenever desired. Uses graphics.

Description OSLO-85 is an interactive engineering system that provides optical design and analysis. It is a flexible system with a special multicommand operating feature that allows command sequences to be preprogrammed and stored for later use. Any surface of the system can be tilted and decentered and can have an aspheric or toric shape. OSLO-85 can support up to 50 such surfaces; however, it can handle up to 100 spherical surfaces on a common axis. Evaluation performed includes paraxial ray tracing, exact ray tracing, spot diagram analysis, and computation of aberration coefficients. OSLO-85 allows system design using a merit function, of the user's choosing, based on optical path differences or transverse ray displacements. It uses graphics on the CRT and on an external plotter. It also uses zoom graphics that allow the user to make measurements from CRT images.



Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

SOFTWARE SYSTEMS CORP

5766 Balcones Dr
Austin TX 78731

(512) 451-8634

► COGEN

An engineering analysis program that performs thermodynamic and economic analysis of cogeneration systems

Price \$735 purchase

Environment Computers: IBM Personal Computer and all other systems running under MS-DOS and compatible with MBASIC. Main storage: 64K bytes. Source language: BASIC.

Capabilities Steam and electricity usage analysis. Reporting. Menu-driven operation.

Description COGEN performs a thermodynamic and economic analysis of an in-plant cogeneration system using back-pressure steam turbines. The program incorporates routines for determining steam properties as well as correlations for turbine part-load performance. Any arbitrary profile of plant steam and electricity usage can be analyzed. COGEN produces a lifetime energy utilization and cash flow report for the specified configuration. Parametric studies are easily performed using a data-recycle option, which permits repetitive analysis and changes only those parameters that differ from case to case. Cases can be stored on disk for future recall and modification.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

SOFTWARE SYSTEMS CORP

5766 Balcones Dr
Austin TX 78731

(512) 451-8634

► COMBUSTION

An engineering package that calculates the efficiency and losses for industrial and commercial boilers and fired heaters

Price \$490 purchase

Environment Computers: IBM Personal Computer, and all systems running under MS-DOS and compatible with MBASIC. Main storage: 64K bytes. Source language: BASIC.

Capabilities Menu-driven operation. Internal fuel properties tables. What-if calculations.

Description COMBUSTION determines the efficiency of combustion systems such as boilers and fired heaters. The program uses the standard molal method of combustion analysis, but data is input in common units such as pounds and cubic feet. Solid, liquid, and gaseous fuels can be analyzed, and internal tables of fuel properties are incorporated for standard fuels. Uncon-

ventional fuels such as industrial wastes are easily accommodated, and tables of fuel properties are provided in the user's manual for convenience. COMBUSTION can be used for computing efficiency from combustion test data and for performing what-if calculations for design and energy management purposes.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

SOFTWARE SYSTEMS CORP

5766 Balcones Dr
Austin TX 78731

(512) 451-8634

► FLUIDFLO

A menu-driven package that calculates pressure losses and pumping power in fluid piping systems

Price \$330 purchase

Environment Computers: IBM Personal Computer and all systems running under MS-DOS and compatible with MBASIC. Main storage: 64K bytes. Source language: BASIC.

Capabilities Menu-driven operation. Piping system design and analysis. Reference tables.

Description FLUIDFLO computes pressure loss and pumping power requirements in piping systems. The program aids in the design of new piping systems and the analysis of existing piping systems to reduce pumping costs. Extensive tables of pipe materials, fluid properties, and standard fitting characteristics are incorporated internally to minimize the need for reference to outside tables and charts; additional engineering data on nonstandard situations is provided in the user's manual.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

SOFTWARE SYSTEMS CORP

5766 Balcones Dr
Austin TX 78731

(512) 451-8634

► STEAMCALC

A modeling package that calculates the thermodynamic properties of steam

Price \$245 purchase

Environment Computers: IBM Personal Computer and all systems running under MS-DOS and compatible with MBASIC. Main storage: 64K bytes. Source language: BASIC.

Capabilities Nineteen property functions.

Description STEAMCALC determines the thermodynamic properties of steam, based on an adaptation of the formulations used to produce the standard ASME steam tables. The program provides a menu of 19 property functions for enthalpy, entropy, specific volume, and saturation temperature and pressure as functions of

various independent parameters. Properties can be computed in the subcooled, saturation, and superheat regions. Over most of the range of temperature and pressure of industrial interest, computed property values are within 0.1 percent of values tabulated in the ASME steam tables. Larger deviations can occur in the extreme temperature and pressure range; these are documented in the user manual.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

SPECTRUM SOFTWARE

690 W Fremont Ave
Sunnyvale CA 94087

(408) 738-4387

► MICRO-CAP

A design program that performs interactive circuit design and analysis

Price \$445 purchase

Environment Computers: IBM Personal Computer; Apple II+ and IIe. Main storage: 128K bytes (IBM), 64K bytes (Apple). Source language: BASIC.

Capabilities Interactive drawing and analysis.

Description MICRO-CAP allows the engineer to design and predict the performance of a microcomputer circuit without having to build it. The software product enables the user to:

- Draw an electronic circuit diagram directly on the CRT screen
- Run a time-domain simulation of the circuit responding to user-defined input sources
- Perform an AC (Bode) analysis showing gain and phase shift versus frequency
- Perform a DC transfer character analysis showing output voltages versus input voltage.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

SPECTRUM SOFTWARE

690 W Fremont Ave
Sunnyvale CA 94087

(408) 738-4387

► MICRO-LOGIC

A simulation program that performs interactive circuit drawing and simulation

Price \$450 purchase

Environment Computers: IBM Personal Computer; Apple II+ and IIe. Main storage: 128K bytes (IBM), 64K bytes (Apple). Source language: BASIC.

Capabilities Interactive drawing and simulation.

Description MICRO-LOGIC allows the engineer to design and predict the performance of a circuit without actually having to build it. The user can draw a logic diagram directly on the CRT screen, and run a timing

simulation of the network responding to user-defined input sources.

By drawing interconnecting lines and contacting gate input and output nodes using the PLOT and CONTACT commands, the user can create any type of logic network. Completed logic diagrams can be saved in a diskette file.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

SUN VALLEY SYSTEMS

844 Sun Valley Rd
Birmingham AL 35215

(205) 853-8440

► Surveyors System

An engineering program that provides surveyors with data computation and coordinate geometry capabilities

Price \$300 purchase

Environment Computers: IBM Personal Computer; Apple II, II+, IIe, and III; computers running under MS-DOS, CP/M, TRSDOS. Main storage: 64K bytes. Source language: BASIC.

Capabilities Double-precision variables. Extended precision functions.

Description Surveyors System is an interactive program designed to aid the surveyor in the computation and bookkeeping chores of surveying. Each program provides for a hard copy of the input and output.

The following functions are included:

- Traverse with side shots, closure, inverses, and areas
- Statia reduction
- Universal triangle solution
- Universal intersections, inverses, and area from coordinates
- Coordinate transformation
- Circular curve solution
- Horizontal and vertical curve layout
- Cut/fill and borrow pit volume
- Traverse balance.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

TANDY

1800 One Tandy Ctr
Fort Worth TX 76102

(817) 390-3300

► Chemistry Simulations/Color Chemistry Simulations

A chemistry experiment simulator that applies graphics and mathematical equations to simulate chemical reactions

Price \$199 purchase



Environment Computers: Tandy TRS-80 Model I, Model III, Color Computer. Main storage: 32K bytes. Source language: BASIC, Extended BASIC.

Capabilities Graphics. Mathematical equations. Simulates chemical reactions.

Description Radio Shack Chemistry Simulations and Color Chemistry Simulations are designed to allow scientists, engineers, and students to utilize graphics, mathematical equations, and a TRS-80 to simulate chemical reactions that occur under actual laboratory conditions. Experiments include kinetic theory, Charles' Law, Boyle's Law, solubility, titration, and conductivity. The program allows users to witness experimental results and to collect, graph, and analyze experimental data.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

TENSEGRITY

2424 W Addison St
Chicago IL 60618

(312) 935-9714

► NICOLET/85

An engineering system that transforms waveforms, then transfers, plots, and stores the data

Price \$150 purchase

Environment Computers: Hewlett-Packard HP 83 and HP 85. Main storage: 32K bytes. Source language: not specified.

Capabilities Transfers waveforms to and from oscilloscopes and computer systems. Plots the waveform. Stores the waveform on tape or disk. Formats data points for the HP Waveform Analysis Pac. Stores formatted data on tape or disk.

Description NICOLET/85 is an engineering system that transforms waveforms to and from Nicolet 2090 digital oscilloscopes and HP 83/85 computer systems. It transfers 4,096 twelve-bit data points to an HP 83/85 in 1.3 seconds. NICOLET/85 plots the waveform on a CRT or HP plotter and stores it on tape or disk. The system also formats the data points for the HP Waveform Analysis Pac. Formatted data is stored on tape or disk. The system is soft-key driven.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

THRESHOLD SOFTWARE

1832 Tribute Rd
Suite E
Sacramento CA 95815

(916) 920-8189

► SERCAL

An electrical service calculation system for use in commercial buildings

Price \$300 purchase

Environment Computers: Hewlett-Packard HP 83 and HP 85. Main storage: 32K bytes. Source language: not specified.

Capabilities Provides forms containing complete documentation of the building's electrical service requirements, including conductor and conduit size, panel size, and overcurrent device setting. Accommodates calculations traceable to the National Electrical Code. Considers commercial availability and trade practice in sizing.

Description SERCAL is an engineering program that calculates the size of electrical services to commercial buildings. It is designed for architects, contractors, engineers, plan checkers, and others involved in the building industry. SERCAL produces forms for submission to building-inspection and permitting agencies and aids designers by posing alternative ways of providing service to a building. Input options include the ability to enter a complete list of electrical equipment or an assumed number of volt-amperes per square foot for preliminary studies.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

UNIQUE INFORMATION SYSTEMS

221 N LaSalle St
Suite 1320
Chicago IL 60601

(312) 332-2820

► MICROSTRAN

An engineering system that performs structural analysis on two-dimensional structures

Price \$495 purchase

Environment Computers: any microcomputer running under CP/M. Main storage: 48K bytes. Source language: BASIC.

Capabilities Analyzes two-dimensional structures. Allows for nodes rotation for inclined supports. Supports load application.

Description MICROSTRAN is an engineering system designed for structural analysis of two-dimensional frames and trusses composed of prismatic members. Nodes may be rotated to allow for inclined supports. Flexural members may have pin releases at either end. As concentrated nodal forces and uniformly distributed member loads act parallel to the local-member y-axis, the global x-axis or the global y-axis loads may be applied. The number of load cases is limited by the availability of disk storage.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

UNIVERSAL TECHNICAL SYSTEMS INC

1220 Rock St
Rockford IL 61101

(815) 963-2220

► Spur and Helical Gear Analysis

A simulation package that performs external involute gear and tooling analysis

Price \$1,950 purchase, base system with hobbing or shaping

Environment Computers: IBM Personal Computer and Personal Computer XT. Main storage: 256K bytes. Source language: BASIC.

Capabilities Gear compatibility analysis. Grinding calculations. Plotting.

Description Spur and Helical Gear Analysis is based on American Gear Manufacturers' Association (AGMA) Standard 218.0 (issued December 1982). The program analyzes spur or helical gear sets to ensure that each gear is compatible with its mate and with the tooling (e.g., hobs, shaper cutters, and shaving cutters) that will be used in its manufacture. If a gear is to be ground, the program calculates the proper finished diameter and recommends the amount of grinding stock to be used. The program calculates AGMA durability factor (I), AGMA strength factor (J), and J-factor balance (for maximum gear strength) and analyzes specific sliding ratios. The program accommodates gears in the range from 0.1 to 100 normal diametral pitch and from 5 to 9,999 teeth. Default values are furnished for most data, including hob and shaper cutter dimensions. A large-scale plot of gear tooth profile is provided as an aid to interpreting the program's printed output.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

By using control files, the program can complete a series of operations without operator attention.

This program can analyze circuits of up to 64 nodes and 127 branches. All circuits are built from passive components (resistors, capacitors, inductors) and active components (voltage and current sources—controlled and fixed). Models of such devices as transistors and operational amplifiers can be built using the components available in this program. ECA analyzes filters, audio amplifiers, equalizers, and antenna couplers.

Compatibility Matrix: 216.0025.004
Features Matrix: 216.0030.004

WESTICO INC

25 Van Zant St
Norwalk CT 06855

(203) 853-6880

► ELECTRONIC CIRCUIT ANALYSIS (ECA)

An electronic engineering package that provides an alternative to computer breadboarding

Price \$150 purchase

Environment Computers: IBM Personal Computer; microcomputers running under MS-DOS, CP/M-80, or CP/M-86. Main storage: 48K bytes (CP/M), 128K bytes (MS-DOS). Source language: Assembler.

Capabilities Circuit optimization. Worst-case performance analysis.

Description ECA is designed to provide an alternative to breadboarding and extensive measurements. Its many advanced features include a full worst-case analysis for finding variations in performance with component tolerance, a dynamic modification facility that allows component values to be varied by the computer, and a table of results that can be printed automatically.



GRAPHICS

Compatibility Matrix

217.0025.001

Vendor/Package	Compatible Operating Systems																Other
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	Unix	Xenix	
Accent Software Accu-Shapes	•																
Accusoft Enterprises ACCU-PLOT II																	Pick
AlphaBit Communications LAZYFONT													•				
Aspect GL/M			•														
AutoDESK AutoCAD							•			•							
Autographix AGX50 GUIDELINES Autographix 35 Presentation Graphics Software	•						• •										
Brightbill-Roberts and Company GraFIX Partner										•							
Business & Professional Software Art Department BPS Business Graphics PIK	•						•										Apple Lisa
Chang Labs GraphPlan			•		•		•			•							
Chorus Data Systems IMiGIT							•										
Computer Graphics Group PC Illustrator ProGraf										• •							
CompuView Products V-GRAPH							•			•							ZDOS
Datagraphic Systems CAD MASTER 2000							•			•							
Decision Resources CHART-MASTER DIAGRAM-MASTER SIGN-MASTER							• • •										
Duncan-Atwell Computerized Technologies LENICAD LENIFLOW/3270—Intelligent Flowcharting System LENIMED—Medical/Dental Graphic Presentation System LENIPEN/PC—Intelligent Color Graphics System LENILOT—The Graphical Plotting System LENIPREZ—Executive Graphics & Presentation System							• • • • • •			• • • •							
Enertronics Research Energraphics							•			•							

Vendor/Package	Compatible Operating Systems														Other
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	
Fox & Geller dGRAPH Grafox			•		•		• •			•					
FTG Data Systems EMU-TEK							•			•					
General Parametrics PictureIt							•								
Geocomp GEOGRAF			•							•					
Graphic Communications Freelance Graphwriter							•			•					
Graphics Software Systems GSS-DRIVERS GSS-TERMINAL							• •			• •				• •	
Human Systems Dynamics CALCU-PLOT	•														
HyperGraphics HyperGraphics Authoring Graphics System HyperGraphics Business Presentation Graphics System							• •			• •					
Imagimedia Technologies MicroCAD							•			•					
IMSI Software Publishers 4-Point Graphics PC Paintbrush							• •			•					
Innovative Software Fast Graphs							•								
Interactive Picture Systems MOVIE MAKER	•														Commodore DOS, Atari DOS
Koala Technologies Executive Presentation Kit							•								
LCS/Telegraphics TelePaint										•					
Madwest Software Amperdump	•														ProDOS
Media Cybernetics Dr. HALO II HALO NIMBUS										• • •					

Vendor/Package	Compatible Operating Systems																Other
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	Unix	Xenix	
Micro Control Systems Advanced Space Graphics System CADKEY							• •										
Microcompatibles GRAFMATIC OMNILOT PLOTMATIC							• • •										
Micrografx PC-Draw							•										
Micropro International ChartStar							•										
Miracle Computing GRAFCALC							•		•								
Misosys ZGRAPH																	LDOS
Mosaic Software SOFTPLOT/BGL			•						•								
Omicron Software PLOTMAX							•										
PalSoftware ARTPAK Presentation System							•		•								
Peachtree Software Business Graphics System			•						•								
PowerSoft PowerDraw												•					
Precision Visuals DI-3000 GRAFMAKER															• •		
Primesoft The Prime Plotter	•																
Redding Group GrafTalk			•		•		•	•		•							
Sensible Software Graphics Department Image Printer II	• •																
Softel Videogram							•										
Softkey Software Products KeyChart	•		•				•		•								TP/M, ZDOS

Vendor/Package	Compatible Operating Systems														Other	
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System		Unix
Software Publishing PFS:Graph	•						•									
Strategic Locations Planning Atlas AMP							•			•						
Tandy Lumena										•						
Visual Communications Network VCN ExecuVision							•									

GRAPHICS

Features Matrix

217.0030.001

Vendor/Package	System Capabilities														
	Business Graphics	CAD/CAM	Data Manipulation	Digitizing Pad Support	Editor	Flowchart Drawing	Freehand Drawing	High-Low-Close Stock Charts	Input from Keyboard	Input from Other Programs	Multiple Fonts and Sizes	Plotter Support	Printer Support	Rotation/Scaling	Saves Graph Formats
Accent Software Accu-Shapes							•			•					•
Accusoft Enterprises ACCU-PLOT II	•				•					•		•	•		•
AlphaBit Communications LAZYFONT											•		•		
Aspect GL/M					•								•	•	•
AutoDESK AutoCAD		•		•								•		•	•
Autographix AGX50 GUIDELINES Autographix 35 Presentation Graphics Software	• •				•				•	•	•		•		•
Brightbill-Roberts and Company GraFIX Partner					•	•	•		•	•	•	•	•	•	•
Business & Professional Software Art Department BPS Business Graphics PIK	•		•						•	•		•	•	•	•
Chang Labs GraphPlan	•		•						•	•			•		•
Chorus Data Systems IMiGIT	•			•	•	•	•		•	•	•		•	•	•
Computer Graphics Group PC Illustrator ProGraf	• •			•	•	•	•		•	•	•	•	•	•	•
CompuView Products V-GRAPH		•							•	•			•		•
Datagraphic Systems CAD MASTER 2000		•		•	•	•			•	•	•	•	•		•
Decision Resources CHART-MASTER DIAGRAM-MASTER SIGN-MASTER	• • •		•		•		•		•	•		•	•	•	•
Duncan-Atwell Computerized Technologies LENICAD LENIFLOW/3270—Intelligent Flowcharting System LENIMED—Medical/Dental Graphic Presentation System LENIPEN/PC—Intelligent Color Graphics System LENILOT—The Graphical Plotting System LENIPREZ—Executive Graphics & Presentation System	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •

Vendor/Package	System Capabilities																			
	Business Graphics	CAD/CAM	Data Manipulation	Digitizing Pad Support	Editor	Flowchart Drawing	Freehand Drawing	High-Low-Close Stock Charts	Input from Keyboard	Input from Other Programs	Multiple Fonts and Sizes	Plotter Support	Printer Support	Rotation/Scaling	Saves Graph Formats	Saves Images	Shape/Symbol Table	Statistical Analysis	Text Slides	Three-Dimensional Images
Enertronics Research Energraphics	•	•					•		•	•			•	•		•	•			•
Fox & Geller dGRAPH Grafox	•		•						•	•		•	•		•					
FTG Data Systems EMU-TEK	•	•		•					•		•	•	•	•		•		•		•
General Parametrics PictureIt	•								•	•	•		•		•	•			•	•
Geocomp GEOGRAF											•	•		•	•	•	•			
Graphic Communications Freelance Graphwriter	•			•	•	•	•		•	•	•	•	•	•	•	•	•		•	
Graphics Software Systems GSS-DRIVERS GSS-TERMINAL				•	•							•	•				•			
Human Systems Dynamics CALCU-PLOT	•		•	•					•	•			•		•	•				
HyperGraphics HyperGraphics Authoring Graphics System HyperGraphics Business Presentation Graphics System	•		•	•	•	•	•		•		•		•		•	•		•	•	
Imagimedia Technologies MicroCAD		•	•	•	•		•		•	•	•	•	•	•	•	•	•			•
IMSI Software Publishers 4-Point Graphics PC Paintbrush	•			•	•	•	•				•	•	•	•	•	•	•		•	
Innovative Software Fast Graphs	•		•	•		•			•	•		•	•		•	•				•
Interactive Picture Systems MOVIE MAKER					•	•			•		•			•		•				
Koala Technologies Executive Presentation Kit	•			•	•			•	•	•	•	•	•		•	•	•		•	
LCS/Telegraphics TelePaint	•					•	•		•	•	•		•	•	•	•			•	
Madwest Software Amperdump													•							
Media Cybernetics Dr. HALO II HALO NIMBUS	• • •	•		• • •		• • •		•	• • •	• • •	• • •	• • •	• • •	•		• • •	• • •		• • •	•

Vendor/Package	System Capabilities															
	Business Graphics	CAD/CAM	Data Manipulation	Digitizing Pad Support	Editor	Flowchart Drawing	Freehand Drawing	High-Low-Close Stock Charts	Input from Keyboard	Input from Other Programs	Multiple Fonts and Sizes	Plotter Support	Printer Support	Rotation/Scaling	Saves Graph Formats	Saves Images
Micro Control Systems Advanced Space Graphics System CADKEY		•	•	•			•		•	•	•	•	•	•	•	•
Microcompatibles GRAFMATIC OMNILOT PLOTMATIC									•	•	•	•	•	•	•	•
Micrografx PC-Draw		•				•	•					•	•	•		•
Micropro International ChartStar	•		•	•					•	•	•	•	•		•	•
Miracle Computing GRAFALC	•								•	•	•	•	•		•	•
Misosys ZGRAPH					•	•				•					•	•
Mosaic Software SOFTPLOT/BGL										•	•	•	•		•	•
Omicron Software PLOTMAX	•				•				•	•		•	•			•
PalSoftware ARTPAK Presentation System	•		•	•	•	•	•		•	•	•	•	•	•	•	•
Peachtree Software Business Graphics System	•			•					•	•	•	•	•		•	•
PowerSoft PowerDraw					•	•			•	•		•				
Precision Visuals DI-3000 GRAFMAKER	•	•		•	•				•	•		•	•	•	•	•
Primesoft The Prime Plotter	•			•			•	•	•	•		•	•	•		•
Redding Group GrafTalk	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•
Sensible Software Graphics Department Image Printer II	•		•			•	•	•	•	•	•	•	•	•	•	•
Softel Videogram	•		•	•	•	•	•	•	•	•	•				•	•
Softkey Software Products KeyChart	•		•	•			•	•	•	•	•	•	•	•	•	•

Vendor/Package	System Capabilities																			
	Business Graphics	CAD/CAM	Data Manipulation	Digitizing Pad Support	Editor	Flowchart Drawing	Freehand Drawing	High-Low-Close Stock Charts	Input from Keyboard	Input from Other Programs	Multiple Fonts and Sizes	Plotter Support	Printer Support	Rotation/Scaling	Saves Graph Formats	Saves Images	Shape/Symbol Table	Statistical Analysis	Text Slides	Three-Dimensional Images
Software Publishing PFS:Graph	•				•				•	•		•	•		•					
Strategic Locations Planning Atlas AMP	•			•								•	•	•		•		•		
Tandy Lumena	•			•				•					•	•		•				
Visual Communications Network VCN ExecuVision	•					•	•		•		•		•	•	•	•	•			•



GRAPHICS

Product Summaries

ACCENT SOFTWARE

4546 El Camino
Los Altos CA 94022

(415) 949-2711

► Accu-Shapes

A graphics symbol and character generator

Price \$50 purchase

Environment Computers: Apple DOS. Main storage: 48K bytes. Source language: Assembly.

Capabilities Low- and high-resolution graphics supported. Special character sets and graphics symbols are standard. Table storage contains from 20 to 250 shapes. Up to 20 commands are provided to draw, trace, erase, and scroll.

Description Accu-Shapes is a program that generates graphics symbols and characters and supports commercial and personal computer applications. All shapes are created in color and drawn by cursor. A menu lists all commands available; help screens and a demonstration/tutorial program are also provided. Accu-Shapes is copy protected.

Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001

ACCUSOFT ENTERPRISES

8043 Foothill Blvd
Sunland CA 91040

(818) 352-1233

► ACCU-PLOT II

A business graphics program

Price \$295 purchase for IBM PC version; all others \$995 purchase

Environment Computers: microcomputers running under PICK. Main storage: 256K bytes. Source language: Assembly.

Capabilities Language oriented. Produces line, bar, scatter, pie, exploded pie, and stacked bar charts. Plots any number of attributes. Y-axis attributes can be grouped for common scaling. Automatic scaling. Horizontal and vertical graph formats. Multiple charts on single page. Interfaces to the IDS Prism color printer and Houston Instruments DMP-29 8-pen plotter.

Description ACCU-PLOT II is an easy-to-use graphics program that accesses existing data files to produce graphs on both screen and hard-copy devices. ACCU-PLOT II uses files produced by BASIC programs and by Interactive Systems COMPU-SHEET electronic spreadsheet without modification.

The program uses a language syntax similar to many inquiry language formats. Most charts can be produced with as few as four verbs.

Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001

ALPHABIT COMMUNICATIONS

13349 Michigan Ave
Dearborn MI 48126

(313) 581-2896

► LAZYFONT

A font generator package for use with the Lazy Writer WP system

Price \$50 purchase

Environment Computers: Tandy Radio Shack TRS-80 Models I, III, IV. Main storage: not specified. Source language: not specified.

Capabilities Centers. Indents. Generates double-width, compressed, emphasized, and double-struck print.

Description LAZYFONT creates customized letterheads, logos, headlines, illustrations, scientific or math symbols, and foreign character sets. Users can create either type fonts as a complete alphabet or graphic symbols, such as logos.

The package has two parts: one draws characters, and the other prints characters. The printer part integrates with Lazy Writer by substituting for the regular printer driver. An unlimited number of fonts can be used in one document. Users can generate hard copy with Epson printers using Grafrax or Grafrax Plus.

Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001

ASPECT

167 Worcester St
Wellesley MA 02181

(617) 431-7576

► GL/M

A graphics language

Price \$195 purchase

Environment Computers: any microcomputer running under CP/M and MS-DOS. Main storage: 128K bytes. Source language: PL/1.

Capabilities English-language command structure with built-in facilities for the production of lines, boxes, curves, and text. Supports printer drivers for use with various letter-quality impact printers.

Description GL/M produces charts, graphs, and other computer-generated images. A rubber graphics feature allows images to be scaled in one or two directions at once through a single command.

Compatibility Matrix: 217.0025.004

Features Matrix: 217.0030.004

AUTODESK

150 Shoreline Hwy
Building B
Mill Valley CA 94941

(415) 331-0356

► AutoCAD

A two-dimensional, computer-aided design and drafting system

Price \$1,000 purchase (\$2,500 with drafting toolkit)

Environment Computers: IBM PC and PC XT; Victor 9000, Zenith Z-100, NEC Advanced PC, Digital Equipment Rainbow 100, Texas Instruments Professional Computer, and Eagle PC running under MS-DOS. Main storage: 256K bytes. Source language: C.

Capabilities Editing commands to move, copy, modify, erase, rotate, and scale drawings either vertically or horizontally. Generates repetitive patterns, such as brick walls or memory arrays. Bidirectional zoom facility, with a ratio of at least one to one trillion between the largest and smallest objects. Aligns objects to grid boundaries. Text placement.

Description AutoCAD is a general-purpose package for such applications as architectural and landscape drawings; drafting for mechanical, electrical, chemical, structural, and civil engineering; and printed-circuit design. Users can create screen menus through ordinary text files and define parts libraries by drawing them on the screen.

Users can create and edit drawings of any size or scale using a light pen or a digitizing tablet, or using commands entered on the keyboard. An optional alignment grid displays on the screen as a drawing aid. Up to 127 layers and colors can be used, allowing drawings to be selectively viewed or plotted as if on transparent over-

lays. Drawings are stored on disk and can be output on a plotter at any time during the drawing process.

The Advanced Drafting Extension option adds three-dimensional graphics modeling to AutoCAD. The toolkit also features dimensioning capabilities for the display of scaled objects with length measures, as well as cross-hatching and filleting.

Compatibility Matrix: 217.0025.001

Features Matrix: 217.0030.001

AUTOGRAPHIX

100 Fifth Ave
Waltham MA 02154

(617) 890-8558

► AGX50 GUIDELINES

A slide design package

Price \$2,500 purchase

Environment Computers: Apple II, II+, IIe; IBM PC and PC XT. Main storage: not specified. Source language: not specified.

Capabilities Includes 25 standard vendor-supplied layouts. Stores user-defined formats. Full color. Operates as a standalone package or communicates with a service center.

Description AGX50 GUIDELINES interfaces to the AGX100 slide generation system to design full-color slides. In multiuser configurations, slides are designed on an AGX100 system shared with AGX50 users. The AGX50 user selects a slide layout, enters slide information, and prints a hard copy.

Anything created on the AGX100 can be transmitted to the AGX50. A corporate communications department can, for example, use the electronic drawing tablet of the AGX100 to create logos, symbols, special backgrounds, and border treatments. These designs can then be transferred to remote AGX50 systems.

After creating slide designs, users can display them in full color, add more graphics, and print a hard copy or transmit the information to an Autographix service center in Boston, New York, Chicago, or Los Angeles, where computer film recorders turn the slide designs into high-resolution 35mm color slides. Users receive processed and mounted slides the following day, usually for a cost of \$10 or less.

Compatibility Matrix: 217.0025.001

Features Matrix: 217.0030.001



AUTOGRAPHIX

100 Fifth Ave
Waltham MA 02154

(617) 890-8558

► Autographix 35 Presentation Graphics Software

A presentation graphics package

Price \$895 purchase

Environment Computers: IBM PC, PC XT, PC AT, and compatible systems. Main storage: IBM PC, 128K bytes; IBM PC XT and AT, 256K bytes. Source language: not specified.

Capabilities Creates design workstation for presentation graphics from desktop microcomputer. Menu driven.

Description Autographix 35 Presentation Graphics Software turns an IBM AT, XT, PC, or compatible into a workstation for presentation graphics. The software features a wide variety of programs for automated layout of business charts, graphs, and word slides. A symbol library provides "clip art" symbol images for use as design enhancements.

A highlight of the Autographix 35 package is its ability to network with other Autographix products. For example, a higher-end system can provide the foundation for a corporate style in slide design through preset design formats and specially created corporate symbols.

Autographix 35 packages also communicate with each other, allowing last minute changes to slide images and slide previewing, even among locations thousands of miles apart.

Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001

BRIGHTBILL-ROBERTS AND COMPANY LTD

120 E Washington St
Suite 421
Syracuse NY 13202

(315) 474-3400

► GraFIX PARTNER

A graphics enhancement utility

Price \$149-\$179 purchase, depending on system configuration

Environment Computers: those running under MS-DOS. Main storage: 128K bytes. Source language: machine.

Capabilities Enhances graphics created by any program. Enables use of full graphic capabilities of hardware. Adds capabilities to graphics software. Font editor, 20 fonts with proportional spacing. Can be used as a standalone drawing program as well as a background enhancement.

Description The GraFIX PARTNER is a graphics enhancement utility that works primarily as a back-

ground accessory to both hardware and software. With one keystroke, the user can enhance graphics created by any program, including LOTUS 1-2-3, Symphony, Framework, pfs:graph, and Graphwriter. The GraFIX PARTNER can highlight, zoom, undo, paint, airbrush, change colors, and perform other editing functions. Text can be added in 20 fonts, or users can create their own fonts.

The GraFIX PARTNER can use the full graphics capability of users' hardware. Users can also add an image or object created by any software to the GraFIX PARTNER's image library. The program is adapted to co-reside with other software.

The GraFIX PARTNER, though primarily a background enhancement package, can also function as a standalone drawing program.

Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001

BUSINESS & PROFESSIONAL SOFTWARE

143 Binney St
Cambridge MA 02142

(617) 491-3377
(800) 342-5277

► Art Department

A library of illustrations and figures

Price \$150 purchase

Environment Computers: Apple Lisa. Main storage: not specified. Source language: not specified.

Capabilities Disk-resident library of predrawn images, symbols, and graphics elements for use with Apple Computer LisaDraw. Images can be manipulated with any LisaDraw Command.

Description Art Department is a library of figures and illustrations that, combined with Apple Computer LisaDraw, enhances the quality of graphs, charts, or presentation slides. Art Department figures include:

- Maps and flags—Maps of the world, the U.S., and American states; flags of most countries
- Extended alphabet—A library of text fonts that can be manipulated by LisaDraw
- Figures and illustrations—Includes illustrations of people in a variety of activities, different modes of transportation, and depictions of rural and urban areas
- Shapes—Includes arrows and dotted lines
- Symbols—Demographic, industrial, business, and idiomatic symbols
- Standard forms—Includes calendars, invoices, and statements

Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001

BUSINESS & PROFESSIONAL SOFTWARE

143 Binney St
Cambridge MA 02142

(617) 491-3377
(800) 342-5277

► BPS Business Graphics

A business graphics package

Price \$350 purchase

Environment Computers: IBM PC, PC XT. Main storage: 128K bytes. Source language: Pascal.

Capabilities Produces multicolor charts and graphs. Operates under English-language commands. Abbreviates commands. Produces any combination of lines. Displays pie charts, areas, and points. Places and centers titles for pages, axes, and legends. Performs statistical functions, such as moving average, exponential smoothing, and curve fitting.

Description BPS Business Graphics creates color graphic representations of data entered from the keyboard or from existing VisiCorp VisiCalc, Microsoft Multiplan, Lotus 1-2-3, and Sorcim SuperCalc models, accounting reports, and WP documents. It performs curve fitting and trend-line analysis, produces vertical and horizontal bar charts, plots two or more graphs on the same set of axes, and produces whole and partial pie charts or scatter charts (points charted in shapes, such as diamonds or crosses). It controls axes and adds grid lines, titles, and legends. Any area of a graph can be enlarged for more detailed study.

The package allows users to output graphs on more than 80 printers and plotters.

Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001

registered owners of PIK with free updates that include new and enhanced device drivers.

Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001

CHANG LABS

5300 Stevens Creek Blvd
San Jose CA 95129

(408) 246-8020

► GraphPlan

A business modeling and graphics program

Price \$295 purchase

Environment Computers: microcomputers running under PC-DOS, MS-DOS, CP/M, CP/M-86. Main storage: 128K bytes (CP/M, 64K bytes). Source language: CBASIC.

Capabilities Business graphics selected through special function keys. Produces pie, bar, stacked bar, line, or combination charts. Automatic scaling and flexible labeling. Spreadsheet modeling with business functions, statistics, and sorting of data.

Description GraphPlan, a business graphics program with a built-in spreadsheet program, is fully compatible with the vendor's more sophisticated MicroPlan. The optional GraphPlan consolidation module allows users to combine multiple reports into summary reports.

Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001

BUSINESS & PROFESSIONAL SOFTWARE

143 Binney St
Cambridge MA 02142

(617) 491-3377
(800) 342-5277

► PIK

A library of graphics device drivers

Price \$50-\$150 purchase

Environment Computers: Apple II, II+, IIe, III. Main storage: 128K bytes. Source language: Apple Pascal.

Capabilities Modifies Apple Business Graphics to support more than 40 graphics printers and pen plotters. On Apple II systems, adds support for color enhancement cards and 80-column adapter boards.

Description PIK adds printer and plotter drivers to the Business and Professional Software Apple Business Graphics program diskette. Available on a retail basis, PIK is also supplied to retail dealers for customizing Apple Business Graphics programs purchased by their customers. Business & Professional Software provides



CHORUS DATA SYSTEMS

PO Box 370
6 Continental Blvd
Merrimack NH 03054

(603) 424-2900
(800) 624-6787

► IMiGIT

Graphics arts paint program

Price \$295 purchase

Environment Computers: those running under PC-DOS. Main storage: 360K bytes, 10M-byte hard disk recommended. Source language: C and Assembly.

Capabilities Captures and enhances graphics from other applications and business presentation packages. Text manipulation. Curve fitting, scaling, and overlaying images. Includes three-dimensional effects, multi-font text, extensive coloring, and texturing. Saves and restores images and symbols.

Description IMiGIT is an image creator and picture editor with video digitizer support. Presentations and illustrations can be prepared through the use of existing materials, such as photos, artwork, and drawings or live pictures captured by the Chorus PC-EYE.

Graphics from applications like Lotus 1-2-3 can be captured, enhanced, and put into an automated slide show. A wide range of enhancement capabilities are built into the system, such as brush selection and text manipulation with eight type faces; an assortment of enhancement tools is included.

Pie charts, bar charts, line graphs, block diagrams, and other variations of standard business graphics can be prepared with IMiGIT. System configuration determines resolution and color selection. Mouses and digitizers can input to the program, and the package supports several printers and video film cameras. Slides, overhead transparencies, and video still frames can be prepared with complete control and rapid editing.

Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001

COMPUTER GRAPHICS GROUP INC

568 14th St NW
Atlanta GA 30318

(404) 876-9469

► PC Illustrator

A presentation graphics system

Price \$95 purchase

Environment Computers: those running under MS-DOS. Main storage: 192K bytes. Source language: 8086 Assembly.

Capabilities Paints with brushes. Supports digitizer, mouse, keyboard or light pen. Online help. Lines, rectangles, bars, circles. Patterned area fill. B-SPLINE curve generation. Symbol libraries.

Description PC Illustrator includes features for generating business graphics, word charts, flow charts, and

free-form art. An icon-based user interface simplifies menu selections. PC Illustrator can also produce word charts by using eight fonts in six text slants and six text paths.

The slide show feature organizes pictures and charts for presentations. Slides can be dissolved from one to another, or a curtain can be raised between slides.

Predefined symbols speed designs. A user can create his own symbol libraries or can use the standard flowchart and electrical circuit libraries.

PC Illustrator includes freehand drawing capability, paint brushes, patterned fill, curves, bars, circles, cut and paste, zoom, editing individual pixels, copy, and isolation and locomotion of picture sections.

Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001

COMPUTER GRAPHICS GROUP INC

568 14th St NW
Atlanta GA 30318

(404) 876-9469

► ProGraf

A business graphics package

Price \$149 purchase

Environment Computers: those running under MS-DOS. Main storage: 192K bytes. Source language: 8086 Assembly.

Capabilities Uses data from Lotus 1-2-3, MultiPlan, or SuperCalc or data entered directly. Allows control of axis styles, colors, and patterns. Supports most input devices, all popular output devices. Floating text, several fonts, and typesizes. Draws several types of charts, including three-dimensional pie charts.

Description ProGraf is a business graphics package, which includes freehand drawing capability for customizing charts and graphics.

ProGraf can create line, bar, area, variance, balance sheets, income statements, critical ratio, PERT, loading, breakeven, high-low charts, sensitivity, three-dimensional bar and pie charts, scatter charts, word charts, and histograms.

ProGraf gives users complete control over axis styles, colors, and fill patterns. Users can change scaling to fit their needs.

Data can be easily transferred from other programs for use with ProGraf's built-in spreadsheet data editor.

ProGraf uses pull-down menus for ease of use, and it works with most printers, plotters, mouses, lightpens and digitizers.

A slide show feature organizes charts and pictures for slide presentations. Slides can be dissolved one to another, or a curtain can be raised between them.

Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001

COMPUVIEW PRODUCTS INC

1955 Pauline Blvd
Ann Arbor MI 48103

(313) 996-1299

► V-GRAPH

A graphics emulator

Price \$120 purchase

Environment Computers: those running under PC-DOS, MS-DOS, ZDOS. Main storage: 64K bytes. Source language: C.

Capabilities Communicates with a host mainframe, simulating Tektronix 4010 terminal. Supports highest resolution possible on each machine. Control or function keys programmable to edit commonly used character strings.

Description V-GRAPH allows a personal computer to be used as a high-resolution graphics terminal.

It allows users of the IBM PC, PC XT, and PC AT; Zenith Z-100; Digital Equipment Corporation Rainbow; or Victor 9000 to emulate a Tektronix 4010 or an ANSI-standard terminal. As a graphics terminal, V-GRAPH provides the highest resolution possible. It can capture text and graphics on disk and replay them offline.

V-GRAPH has a keyboard layout that can be customized and can automatically send key sequences to save time. Several graphics boards, including Hercules, are supported.

Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001

DATAGRAPHIC SYSTEMS

9101 General Dr
Plymouth MI 48170

(313) 451-7025

► CAD MASTER 2000

A two-dimensional graphic design system

Price \$2,495 purchase

Environment Computers: those running under PC-DOS and MS-DOS. Main storage: 512K bytes, 5MB hard disk required. Source language: Assembly.

Capabilities Automatic architectural and mechanical dimensioning. Designs using command language from keyboard, mouse, or digitizing pad. Allows use of multiple fonts, type sizes, and colors.

Description CAD MASTER 2000 is a high-powered, high-productivity, two-dimensional design system that can be used alone or as a network workstation. CAD MASTER 2000 is both menu and keyboard driven.

Among its features are automatic architectural and mechanical dimensioning, automatic line widening, automatic fillet and chamfer, and text insertions, which allow text files to be merged with drawings. CAD MASTER's IGES file translator allows drawings to be transferred between CAD MASTER and other systems supporting IGES. A windowing feature allows the user

to run other programs while inside CAD MASTER.

CAD MASTER 2000 can be used as both a single- or dual-monitor system. Users can choose from several graphics display boards, including Tecmar Graphics Master, Hercules Color, IBM Color, Enhanced, and Professional graphics adapters, and Number Nine Computer's Revolution board of 1,024 by 1,024 pixels. Output from CAD MASTER can be sent to IBM/Epson-compatible dot matrix printers and to a variety of Hewlett-Packard, Houston Instruments, and Calcomp plotters.

Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001

DECISION RESOURCES

25 Sylvan Road South
Westport CT 06880

(203) 222-1974

► Chart-Master

A business graphics package

Price \$375 purchase

Environment Computers: those running under PC-DOS. Main storage: 192K bytes; 256K bytes with printer. Source language: compiled BASIC.

Capabilities Menu-driven business graphics. Combination charts, with secondary charts scaled to fit within space available on primary chart. Displays absolute values or percentages. Produces vertical or horizontal bar charts with up to 24 sets of stacked or clustered bars (52 bars per chart); pie charts with up to 20 slices per pie and four pies per chart; line charts with two scaled Y axes and up to 24 lines per axis; scatter charts with trend lines and regression curves; high-low-close charts. Allows full user control over chart hatching patterns; line types; and text style, size, and color. Includes print drivers for Epson, IBM Color Graphics, and IDS Prism printers. Supports pen plotters from more than 15 vendors. Supports Palette 35mm slide production system.

Description Chart-Master is a business graphics program with a range of options for producing high-quality graphics. Charts can be output to a display screen, printer, or plotter, or they can be saved for inclusion in compilation charts. Chart-Master accepts up to 600 data points input from the keyboard or through Data Interchange Format (DIF) files compiled by such programs as VisiCorp's VisiCalc. Data is stored independent of chart format and can be replotted easily through Chart-Master chart formats. The program includes a built-in editor for making changes to data or graph formats.

Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001



DECISION RESOURCES INC

25 Sylvan Road S
Westport CT 06880

(203) 222-1974

► DIAGRAM-MASTER

A business graphics package

Price \$345 purchase

Environment Computers: those running under PC-DOS. Main storage: 320K bytes; 384K bytes for printers and Polaroid Palette. Source language: not specified.

Capabilities Creates free-form diagrams on screen. Variety of shapes, including box, circle, polygon, arc. Adds to diagram library of 101 frequently used business diagrams and shapes. Up to 16 lines within a shape, up to 500 shapes within a diagram. Organizational and Gantt chart capabilities. Supports light pen for menu selection and moving and sizing of shapes on the drawing board. Seven text fonts, symbol font of commonly used business symbols, eight colors, 16 sizes.

Description DIAGRAM-MASTER produces presentation-quality organizational and Gantt charts as well as free-form diagrams. Prompt-driven applications simplify creation of commonly used diagrams, such as organization and Gantt charts. Custom free-form diagrams, such as flow charts, are produced on the program's drawing board.

Organizational charts are built directly on screen. The user can include 70 boxes with six lines of text each and can choose from three chart layouts.

With the drawing board, enhanced with a library disk of 101 frequently used business shapes, a user can design flowcharts, Venn Diagrams, pyramids, and matrices.

Users can produce diagrams on screen on more than 80 printers and plotters or on 35mm slides, using the Polaroid Palette. Hard disk users can install DIAGRAM-MASTER on their hard disk, eliminating the need to insert a diskette before each use.

Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001

DECISION RESOURCES INC

25 Sylvan Road S
Westport CT 06880

(203) 222-1974

► SIGN-MASTER

A presentation text program

Price \$245 purchase

Environment Computers: those running under PC-DOS. Main storage: 192K bytes; 256K bytes with printer or Polaroid Palette. Source language: not specified.

Capabilities Scroll-through menus with selection defaults. Eighty-column text entry screen. Control of margins and spacing. Entry of data in tabular or column format. Includes symbol font with 94 symbols, eight fonts

in 16 sizes, justification, color, underlining, and italics. Supports more than 80 devices, including several laser printers and the Polaroid Palette.

Description SIGN-MASTER is a menu-driven word charting program that allows a user to enter text and tables by using word processing editing features. Users can create agendas, outlines, summaries, forms, title pages, announcements, proposals, reports, instructional materials, financial summaries, and business presentations.

SIGN-MASTER features seven type faces, including two Helvetica-like Swiss fonts and the symbol font containing 94 commonly used business symbols. Text options that are user controlled include font, size, italics, justification, and pen color. The user can modify plot area, location on the page, pen speed, frame, footnoting, page formatting, margins, and spacing between lines.

Signs and tables can be created, edited, and then produced on more than 80 printers and color plotters or on 35mm slides with the Polaroid Palette. Hard disk users may install SIGN-MASTER on their hard disk, eliminating the need for a diskette to run the program.

Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001

DUNCAN-ATWELL COMPUTERIZED TECHNOLOGIES INC

1200 Salem Ave
Hillside NJ 07205

(201) 355-1690

► LENICAD

A CAD graphics program

Price \$995 purchase

Environment Computers: those running under PC-DOS or MS-DOS. Main storage: 256K bytes. Source language: BASIC Assembly.

Capabilities VDI and GKS supported. Autodimensioning, zooming, scrolling, and panning.

Description LENICAD incorporates some of the CAD functions of large-scale, dedicated CAD machines, such as Vector symbol libraries, autodimensioning, three dimension, rotation, mirroring, grid systems, zooming, scrolling, and panning. In addition, LENICAD includes the freehand pixel editing capabilities comparable to LENIPEN: circles, arcs, ellipses, line patterns, unlimited brush styles, crayon packs, and ribbon drawing. LENICAD supports VDI and GKS and is compatible with cameras, laser printers, 35mm slide cameras, and large-scale industrial drafting equipment. Graphic information is stored in the VDM format, which is transportable to large-scale systems. LENICAD supports the new IBM Enhanced Graphics Card for up to 64 colors.

Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001

DUNCAN-ATWELL COMPUTERIZED TECHNOLOGIES INC

 1200 Salem Ave
 Hillside NJ 07205

(201) 355-1690

► LENIFLOW/3270—Intelligent Flowcharting System

A business graphics system

Price \$795 purchase**Environment** Computers: those running under PC-DOS or MS-DOS. Main storage: 256K bytes. Source language: BASIC Assembly.**Capabilities** Creates flowcharts, text charts, schematic diagrams, layouts, and organizational charts. Contains a virtual screen facility for larger drawings.**Description** LENIFLOW/3270 is an interactive flowcharting system that uses the IBM 3270 PC AT to develop several types of charts, including text charts, process-flow diagrams, schematic drawings, floor space layouts, and facilities planning charts. It contains a virtual screen facility that allows the user to construct large schematic drawings and to scroll, pan, or jump through them in eight directions.

LENIFLOW/3270 supports such ergonomic graphic input devices as the Microsoft Mouse, or the LENIPAD, GTCO, or KURTA digitizing tablets. It can also be used with keyboard input only.

The executive presentation facility can be used to allow quick background and palette changes when creating 35mm slides from direct screen photography.

Graphics may be printed on Epson-compatible dot matrix printers; Quadjet, IBM, or IDS color printers; and HP or QMS laser printers. Plotter support can be attached for creation of overhead transparencies. LENIFLOW/3270 also supports a voice synthesizer for human-like interfacing.

Sample symbol templates are available. LENIFLOW/3270 supports all 3270 PC resolutions (320 by 200, 640 by 200, 360 by 320, and 720 by 350 pixels).

Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001

DUNCAN-ATWELL COMPUTERIZED TECHNOLOGIES INC

 1200 Salem Ave
 Hillside NJ 07205

(201) 355-1690

► LENIMED—Medical/Dental Graphic Presentation System

A graphics program for the medical profession

Price \$895 purchase**Environment** Computers: those running under PC-DOS or MS-DOS. Main storage: 256K bytes. Source language: BASIC Assembly.**Capabilities** Reads preexisting organ libraries for presentations on medical or dental matters. Sections may be highlighted, images may be printed or incorporated into other programs. Stores images, generates slides or projection images.**Description** LENIMED is a graphics presentation system that assists doctors, dentists, nurses, or medical professors in studies of the human body.

LENIMED reads professionally drawn organ libraries, some of which are shipped with the system. The lightpen or mouse may be used to point out, erase, or highlight selected areas of any image. Images can be incorporated into other programs or may be printed with an Epson dot matrix printer, Quadjet, IBM, or IDS color printer; or HP or QMS laser printer. The user can generate photographic slides using the Polaroid Palette Computer Image Recorder. High-resolution video boards, voice synthesis, and other LENIPEN graphic systems are compatible with LENIMED. LENIMED supports the new IBM Enhanced Graphics Card to produce up to 64 colors.

Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001

DUNCAN-ATWELL COMPUTERIZED TECHNOLOGIES INC

 1200 Salem Ave
 Hillside NJ 07205

(201) 355-1690

► LENIPEN/PC—Intelligent Color Graphics System

A business graphics package

Price \$495 purchase for the IBM PC; \$694 for the IBM PC XT; and \$895 for the IBM PC AT**Environment** Computers: those running under PC-DOS or MS-DOS. Main storage: 256K bytes. Source language: BASIC Assembly.**Capabilities** Symbolic icon command sets. Supports digitizing cameras. Large-scale video projection available. Supports IBM BASIC, Bitmap, and VDI formats.**Description** Consists of symbolic icon command sets that include animation, flowcharting, organizational charts, computer-aided design, graphic data base, and an executive presentation facility. The package supports such graphic input devices as the LENIPEN lightpen, Microsoft Mouse, and LENIPAD, GTCO, or Kurtz digitizing tablets. Graphics can be printed on Epson-compatible dot matrix printers; Quadjet, IBM, or IDS color printers; and HP or QMS laser printers. It supports the new IBM Enhanced Graphics Card for up to 64 colors.
Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001


DUNCAN-ATWELL COMPUTERIZED TECHNOLOGIES INC

1200 Salem Ave
Hillside NJ 07205

(201) 355-1690

► LENILOT—The Graphical Plotting System

A plotter support package

Price \$250 purchase

Environment Computers: those running under PC-DOS or MS-DOS. Main storage: 256K bytes. Source language: BASIC Assembly.

Capabilities User controls paper size, pen speed, pen direction, scaling. Plots images created by BASIC, Pascal, or Assembly programs or by LENIPEN, LENIMED, LENITEXT, PC Paint, or similar programs.

Description LENILOT—The Graphical Plotting System employs an innovative user interface technique that simulates the operation of the graphic output device on the screen. The user sees a full-scale plotter image on the screen along with paper sizes, pen-speed controls, pen-selection panels, pen-direction icons, and scaling samples. The user selects the sheet size, then points the plotter pen to where the plot is to begin. Pen speed can be dynamically adjusted for transparencies or smooth-faced paper. Pointing to "PLOT" plots the image.

LENILOT supports the HP7475, HP7470, IBM 7371 and 7372, and a host of other compatibles. It will plot any bitmap image created by several programs. All bitmap images can be color separated during plotting or can be enhanced or modified using a mouse, lightpen, or digitizing tablet. LENILOT can plot 1,000 points per inch, depending on plotter used. It also accepts ASCII and HPGL files. LENILOT is suitable for in-house publishing.

Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001

DUNCAN-ATWELL COMPUTERIZED TECHNOLOGIES INC

1200 Salem Ave
Hillside NJ 07205

(201) 355-1690

► LENIPREZ—Executive Graphics & Presentation System

A presentation graphics system

Price \$495 purchase

Environment Computers: those running under PC-DOS and MS-DOS. Main storage: 256K bytes. Source language: BASIC Assembly.

Capabilities Freehand drawing, animation, sound and voice output, art. Allows several types of charts, graphs. Input from keyboard or from DIF files. Compatible with other "LENI" systems. Allows production of slides for presentations.

Description LENIPREZ creates pie, bar, flow, organizational, Gantt, and PERT charts, prototype reports, and other office-based graphics for management presentations, project meetings, or seminars.

LENIPREZ allows the user to plot a chart directly on the screen using a lightpen or mouse or to graph data directly from any DIF file. Creation of two- and three-dimensional charts is possible, with user-controlled on-screen character location and size.

LENIPREZ allows freehand art, vectors, animation, and sound and voice output. It is shipped with a built-in slide presentation facility. The report prototyping facility allows users to create colorful sample screens from ordinary ASCII text files.

Charts can be created that retrieve data base records or other information when touched with the lightpen or mouse. Optional features include instant slide creation, image digitization, and large-scale video projection. The package supports the new IBM enhanced Graphics Card to yield up to 64 colors.

Compatibility Matrix: 217.0025.001
Features Matrix: 217.0030.001

ENERTRONICS RESEARCH

150 N Meramec
Suite 207
St Louis MO 63105

(314) 725-5566

► Energraphics

An interactive business and three-dimensional graphics program

Price \$350 purchase

Environment Computers: IBM PC; COMPAQ Computer COMPAQ, Texas Instruments Professional Computer, and Victor 9000 running under MS-DOS. Main storage: 64K bytes. Source language: BASIC.

Capabilities Creates and manipulates two- and three-dimensional graphic images and shapes. Color or black-and-white display. Generates line, bar, and pie charts in two- or three-dimensional format. Object modelling, with optional hidden lines. Symbol generation. Interfaces to graphics dot matrix printers.

Description Energraphics allows users to construct two- and three-dimensional graphic images for use in business presentation charts, mechanical or electrical engineering, or any application requiring graphic representation of ideas or information. The program receives input from numerical data files or from on-screen drawings made with advanced cursor control. Objects or graphs can be saved for later editing. The program includes routines for scaling or rotating graphic images.

Compatibility Matrix: 217.0025.002
Features Matrix: 217.0030.002

FOX & GELLER

604 Market St
Elmwood Park NJ 07407

(201) 794-8883

► dGRAPH

A graphics package for dBASE II data bases

Price \$295 purchase

Environment Computers: any computer based on CP/M, PC-DOS, MS-DOS, or CP/M-80. Main storage: 128K bytes. Source language: C and Assembly.

Capabilities Sums, counts, and averages data fields. Automatically scales and labels graphs. Charts percent of total based on summing or counting. Selects from data based on ranges or match values. Charts sums, differences, and ratios. Charts dates by month, day, or year. Produces exception reports showing data that must be corrected.

Description dGRAPH performs graphics functions on any Ashton-Tate dBASE II data base. To use the package, users need a CRT with clear screen and cursor addressing. Data can be entered directly from the keyboard. Information is plotted in line, bar, or pie chart format with various fill shade and graph overlay features. Users can produce hard copy on numerous printers and plotters.

Compatibility Matrix: 217.0025.002

Features Matrix: 217.0030.002

FOX & GELLER INC

604 Market St
Elmwood Park NJ 07407

(201) 794-8883

► Grafox

A business graphics program

Price \$99 purchase

Environment Computers: IBM PC. Main storage: 128K bytes. Source language: C and Assembly.

Capabilities Menu driven with single keystroke commands. Produces bar, pie, combined bar-pie, and line charts. Compatible with the two-pen Hewlett-Packard HP 7470A plotter and most dot matrix printers. Interfaces to external files.

Description Grafox can produce graphics with information selected, sorted, averaged, and totaled from various data base programs. The system tabulates up to four data base fields simultaneously as well as reads BASIC files and Data Interchange Format (DIF) files generated by other application programs.

Compatibility Matrix: 217.0025.002

Features Matrix: 217.0030.002

FTG DATA SYSTEMS

10801 Dale St
PO Box 615
Stanton CA 90680

(714) 995-3900

► EMU-TEK

Terminal emulation package

Price \$295-\$495 purchase

Environment Computers: those running under MS-DOS. Main storage: 256K bytes. Source language: Assembly.

Capabilities Allows an IBM PC to emulate the TEKTRONIX series of graphic terminals. Useful for engineering and chemical structure searching, medical and business charting, and other applications.

Description EMU-TEK, designed to run on an IBM PC, is a specialized graphics communication program featuring complete TEKTRONIX terminal emulation and an alternate mode for text-only operations.

Level-1 provides TEKTRONIX 4010/4012 emulation and offers a screen-copy facility. It is compatible with a wide selection of application programs. No host-computer hardware or software changes are required. A light pen, mouse, and digitizer are supported.

Level-2 incorporates the features of Level-1 with TEKTRONIX 4014 emulation. In addition, Level-2 has Digital Equipment VT100 emulation for text and Digital Engineering VT-640 emulation for text and graphics. Level-2 has local zoom and file-transfer capabilities and offers pen and plotter support. Several graphics boards are supported, including IBM Color/Graphics and Enhanced Graphics Adapters, Hercules Graphics Card, Tecmar Graphics Master, AT&T 6300 Hi-Res Graphics, and Tseng Labs Ultrapak.

Level-3 includes all features of Level-1 and Level-2 products and adds emulation of a TEXTRONIX 4105 for color graphics. Level-3 supports three new graphics boards: the IBM Enhanced Graphics Adapter (640 by 350 pixels, 16 colors); the Verticom M-16 (640 by 480 pixels, 16 colors); and the AT&T display enhancement board (640 by 400 pixels, 16 colors).

Compatibility Matrix: 217.0025.002

Features Matrix: 217.0030.002



GENERAL PARAMETRICS CORP

1505 Solano Ave
Berkeley CA 94707

(415) 524-3950

► **PictureIt**

A business graphics program

Price \$595 purchase

Environment Computers: those running under PC-DOS. Main storage: 256K bytes. Source language: not specified.

Capabilities Designed to enhance General Parametrics VideoShow graphics hardware. Contains 25 graphics formats, including bar charts, histograms, pie charts, and word charts. Options include 105 colors, outlining, underlining, three-dimensional displays, and several types of background styles. Previews graphics and, with VideoShow, produces high-resolution graphics for presentation.

Description PictureIt has been designed to supplement the General Parametrics VideoShow graphics hardware package. Using both systems with an IBM-PC or compatible, users can produce presentation graphics with very high resolution. Graphic pictures can contain 1,000 colors, and horizontal positioning accuracy is 1 in 2,000 with the VideoShow system.

PictureIt allows use of 20 chart formats, 20 preprogrammed backgrounds, and several type sizes and styles. It stores graphs on an IBM PC-DOS diskette and will preview at significantly lower resolution with a graphics board.

Compatibility Matrix: 217.0025.002
Features Matrix: 217.0030.002

GEOCOMP CORP

342 Sudbury Rd
Concord MA 01742

(617) 369-8304

► **GEOGRAF**

A general graphics program for business, science, or engineering applications

Price \$275 purchase

Environment Computers: microcomputers running under CP/M and MS-DOS. Main storage: 256K bytes. Source language: BASIC or FORTRAN.

Capabilities Language oriented. Enhances user control over graph scaling, axis and label placement, and line patterns. Features logarithmic scaling. Includes routines for special shapes (e.g., circles). Interfaces to Hewlett-Packard, IBM, and Watanabe pen plotters.

Description GEOGRAF consists of 14 BASIC routines added to user programs to create specialized plots and graphs by using low-cost pen plotters. GEOGRAF replaces many of the symbol commands required by pen plotters for placing text and scaling axes with a set of English-like statements.

Compatibility Matrix: 217.0025.002
Features Matrix: 217.0030.002

GRAPHIC COMMUNICATIONS

200 Fifth Ave
Waltham MA 02254

(617) 890-8778

► **Freelance**

A presentation graphics package

Price \$395 purchase

Environment Computers: those running under PC-DOS. Main storage: 256K bytes. Source language: not specified.

Capabilities Edits charts and graphs produced using Graphwriter, Lotus 1-2-3, or Symphony. Creates and enhances word slides. Prepares free-form diagrams and drawings. Retrieves and uses predesigned symbol libraries. Creates and stores symbols and logos. Supports several plotters, printers, and image recorders, including the Polaroid Palette.

Description Freelance offers full presentation capability, including chart editing, word chart creation, symbol libraries, and freehand drawing. It can be used to customize existing charts with comments, arrows, company logos, or specialized symbols. Charts can also be resized and combined with other charts, images, or text. Word charts can be created directly on screen and combined with symbols, logos, and other graphics. ASCII text files from most word processing programs can be imported and then customized. Freelance includes special word slide features, such as automatic text spacing and alignment.

Over 200 predrawn symbols are included. The symbols are grouped into sets ranging from arrows and borders to demographic and architectural symbols. Specialized symbols, including company logos, can be created and stored for future use. Symbol sets include detailed maps of all fifty states. Individual states, regions, or the entire country can be used in conjunction with symbols and charts to tie data to particular geographic areas.

Freelance can be used to create diagrams, illustrations, and other freehand images. Objects can be moved, rotated, sized, and edited. Designed for use by the nonartist, Freelance contains a wide variety of drawing aids, such as custom grids, rulers, and templates, so art expertise is not required.

Charts are created at full resolution of the output device. Charts can be produced on transparencies, paper, or 35mm slides.

Compatibility Matrix: 217.0025.002
Features Matrix: 217.0030.002

GRAPHIC COMMUNICATIONS

200 Fifth Ave
Waltham MA 02254

(617) 890-8778

► Graphwriter

A business graphics package

Price \$395-\$595 purchase

Environment Computers: those running under MS-DOS. Main storage: 192K bytes. Source language: UCSD Pascal, C.

Capabilities Includes 24 preprogrammed formats for producing line, pie, and bar charts. Other chart formats include pie-bar combinations, Gantt and organization, range, bubble, and horizontal bar and paired bar. Permits chart overlaying. Chart formats provide default values for size, color, layout, and text font. User override of default values. Supports various pen plotters.

Description Graphwriter combines business graphics output with a simple, menu-driven design. Graphwriter provides 24 preformatted charts, which the user can use as is or modify. The chart programs are oriented to take advantage of the resolution of pen plotters—higher resolution than that offered by most CRT screens.

Graphwriter/Palette is a special version of Graphwriter that can drive a Polaroid Palette 35mm slide production system. Through the use of the Graphwriter/Palette system, users can create high-quality transparencies of Graphwriter charts and graphs. The images can use up to 15 colors from a menu of 72. All capabilities of the Polaroid Palette system, including film advance, are under control of Graphwriter/Palette.

Compatibility Matrix: 217.0025.002
Features Matrix: 217.0030.002

GRAPHICS SOFTWARE SYSTEMS

25117 SW Parkway
Wilsonville OR 97070

(503) 682-1606

► GSS-DRIVERS

An intelligent, hardware-independent graphics device driver

Price Three volumes, \$40 purchase

Environment Computers: microcomputers running under PC-DOS, MS-DOS, or UNIX. Main storage: 128K bytes (includes space for operating system, Visual Display Interface [VDI], and one device driver). Source language: C.

Capabilities Library of drivers for graphics devices, printers, and disk drives. Handles I/O. Monitors device status. Interfaces application programs and hardware. Supports light pen and mouse interfaces. Bindings available for high-level languages, such as Pascal, C, Compiler BASIC, FORTRAN, and Assembler.

Description GSS-DRIVERS is a series of ANSI-standard (VDI ANSI-X3H33) device drivers that pro-

vide hardware-independent interfaces to output devices, such as CRTs, printers, and plotters, as well as input devices, such as mice, joysticks, and digitizing tablets. GSS-DRIVERS interprets requests from an application program and translates them into the format accepted by the hardware device (e.g., ASCII bit stream). GSS-DRIVERS can determine the intelligence of a driven device; for example, if a CRT device has the intelligence to automatically draw an arc, GSS-DRIVERS sends only the size and location parameters; if the device lacks the necessary intelligence, GSS-DRIVERS draws the arc using its own graphics primitives and sends the raster definition stream required by the device to draw the arc.

GSS-DRIVERS includes protocols for placing text on a cursor-addressable CRT. GSS-DRIVERS can be programmed to combine text and graphics in a single document.

Compatibility Matrix: 217.0025.002
Features Matrix: 217.0030.002

GRAPHICS SOFTWARE SYSTEMS

25117 SW Parkway
Wilsonville OR 97070

(503) 682-1606

► GSS-TERMINAL

A Tektronix 4010 terminal emulator

Price \$295 purchase

Environment Computers: microcomputers running under PC-DOS, MS-DOS, or UNIX. Main storage: 256K bytes. Source language: C.

Capabilities Icon-driven menu. Emulates all capabilities of Tektronix 4010 graphics terminal and many features of the Tektronix 4015 terminal. Supports file transfer. Interfaces to any graphics output or input device using GSS-DRIVERS.

Description GSS-TERMINAL allows various microcomputers to function as display terminals for mainframe-based graphics programs, such as the Issco DISSPLA and TELL-A-GRAF, Megatek Template, SAS Institute SAS Graph, Precision Visual DI-3000, and Tektronix Plot-10, that use the Tektronix 4010 terminal protocol. GSS-TERMINAL translates information received from the mainframe into a format used by the GSS-DRIVERS package for use with any input or output device.

Compatibility Matrix: 217.0025.002
Features Matrix: 217.0030.002



HUMAN SYSTEMS DYNAMICS

9010 Reseda Blvd
Suite 222
Northridge CA 91324

(818) 993-8536

► CALCU-PLOT

A scientific and mathematical graphics package

Price \$150 purchase

Environment Computers: Apple II+ and IIe. Main storage: 48K bytes. Source language: BASIC.

Capabilities Generate graphs and charts based on keyboard data entry or calculation of mathematical formulas. Interfaces to VisiCorp VisiCalc and Human Systems Dynamics statistical applications software. Prints graphs on Epson MX-80 dot matrix printer.

Description CALCU-PLOT translates complex equations and raw data into clean, easy-to-read graphs. It includes a library of standard mathematical equations, which can be supplemented with equations defined by the user, for the generation of graphs. CALCU-PLOT handles both Cartesian and polar coordinates. Up to 250 empirical data points can be used in a Cartesian plot, and up to 600 empirical data points in a polar plot. Graph scaling is performed automatically, although users can rescale graphs to emphasize a specific portion of the data. Limits can be imposed on the X, Y, and radial coordinates generated by the equation-solving subroutines.

Compatibility Matrix: 217.0025.002
Features Matrix: 217.0030.002

HYPERGRAPHICS CORP

308 N Carroll Blvd
Denton TX 76201

(817) 565-0004

► HyperGraphics Authoring Graphics System

A graphics-based training system

Price \$395 purchase

Environment Computers: those running under PC-DOS or MS-DOS, equipped with an IBM Color Graphics Board. Main storage: 128K bytes. Source language: BASIC and Assembly.

Capabilities Enables author to combine text with animation sequences to create a learning environment. Constructs presentations for business or education using both a text editor and a graphics editor. Allows author control of presented images and presentation timing.

Description The HyperGraphics Authoring System is a communication tool that allows the author to incorporate text and pictures into animation sequences for use in a learning environment. Branching of up to seven pages from any page allows creation of true/false and multiple choice questioning as well as viewer interaction. Pre-drawn images, icons, or full screens can be brought into

any authoring presentation. Timing (immediate, hesitate, and delay of appearance) is controlled by the author. System outputs to a CRT monitor, RGB projection systems, and dot matrix printers.

Options include:

- Run-time delivery systems for independent playback of computer-aided instruction (CAI), computer-based training (CBT), marketing, or "How To" diskettes.
- Six object libraries with predrawn images for use with the Authoring System include:
 - Computer objects
 - U.S. geography
 - Screen borders
 - Fonts
 - Faces
 - World geography

Compatibility Matrix: 217.0025.002
Features Matrix: 217.003.002

HYPERGRAPHICS CORP

308 N Carroll Blvd
Denton TX 76201

(817) 565-0004

► HyperGraphics Business Presentation Graphics System

A business graphics package

Price \$349 purchase

Environment Computers: those running under PC-DOS or MS-DOS, equipped with an IBM Color Graphics Board. Main storage: 192K bytes. Source language: BASIC and Assembly.

Capabilities Creates six types of business charts. Allows editing of charts and creation of a slide show presentation.

Description The HyperGraphics Business Presentation System is a program that allows the user to create six types of business charts: pie, bar, area, line, stacked, and three-dimensional bar. Data is input by keyboard or from DIF files. Charts can be presented individually or in combinations of two or four, and the graphics editor can be used to incorporate charts into a slide show presentation. Text, pictures, annotations, message windows, and animation sequences can be used to modify the charts to communicate ideas and trends. System outputs to CRT monitors, RGB projection systems, and dot matrix printers. Optional libraries with predrawn images available for use with the Presentation System are:

- Computer objects
- U.S. geography
- Screen borders
- Fonts
- Faces
- World geography

Compatibility Matrix: 217.0025.002
Features Matrix: 217.0030.002

IMAGIMEDIA TECHNOLOGIES INC

7650 Geary Blvd
San Francisco CA 94121

(415) 387-0263

► MicroCAD

Design, modeling, and drafting system

Price \$500 purchase

Environment Computers: those running under MS-DOS and PC-DOS. Main storage: 256K bytes. Source language: not specified.

Capabilities Constructs two- and three-dimensional objects. Rotates, appends, edits, or stretches objects. Two rotatable grids. Automatic dimensioning. Digitizer menu. Extensive online help.

Description With MicroCAD, users can use one program to design, model, analyze, and draft from a single data base.

MicroCAD is a universal cube of space within which a pointer is used to draw three-dimensional objects. The object is totally user controlled, with the pointer used as an observer in creating perspective views. Users can plot a finished view or edit it, take it apart, stretch it, or transform it.

Libraries of two- and three-dimensional objects can be built and used in any combination. Images can be moved in three-dimensional space, rotated, or changed in size or perspective view. Random file structure allows editing of any part of the data base. MicroCAD has two rotatable grids and a synthetic camera, which creates true optical perspectives.

MicroCAD supports, as a program option, the Virtual Device Interface standard, allowing color and line characteristics to the maximum capabilities of any device.

MicroCAD works with several types of digitizers, plotters, printers, light-pens, and mouses. Several modules are available to supplement MicroCAD, including hidden-line removal, three-dimensional rotatable character set, and enhanced drafting features.

Compatibility Matrix: 217.0025.002

Features Matrix: 217.0030.002

IMSI SOFTWARE PUBLISHERS

1299 Fourth St
San Rafael CA 94901

(415) 454-7101

► 4-Point Graphics

A graphics toolkit

Price \$195 purchase

Environment Computers: IBM PC and PC XT. Main storage: 192K bytes. Source language: Compiled BASIC.

Capabilities On-screen freehand drawing using cursor movement keys. Automatically draws lines and vectors between two or more user-specified points. Image manipulation with rotation, scaling, and transformation

functions. Special function keys allow users to select colors for lines, filled areas, and backgrounds. Allows users to place text. Saves all or part of the screen.

Description 4-Point Graphics provides users with various cursor types for creating images on the screen. The one-point cursor draws a continuous line as the user moves the cursor across the screen. The two-point cursor draws rays and vectors between two points. Users can also create circles by defining the center point and the radius. The three-point cursor uses two lines to connect two fixed points to a third, movable point. The four-point cursor places an expandable box on the screen. The box can be used as a fixed shape, or it can be manipulated with scaling, rotation, transformation, and color fill commands.

Compatibility Matrix: 217.0025.002

Features Matrix: 217.0030.002

IMSI SOFTWARE PUBLISHERS

1299 Fourth St
San Rafael CA 94901

(415) 454-7101

► PC Paintbrush

A free-form drawing and painting program

Price \$139 purchase

Environment Computers: those running under PC-DOS or MS-DOS. Main storage: 256K bytes. Source language: C and Assembly.

Capabilities Allows free-form drawing, with capabilities for precise triangles, rectangles, boxes, circles, and ellipses. Paints with a palette of 256 colors, using a mouse or joystick. Enhances graphs from other programs. Includes editing features and electronic type capabilities.

Description PC Paintbrush is a free-form drawing and painting program for the IBM PC and compatibles. Paintbrush supports input from most joysticks, mouses, and drawing tablets. It is compatible with more than 20 color graphic display adapters and supports output to more than 30 printers and plotters. PC Paintbrush allows users to cut, paste, and move objects.

Graphs and charts can be captured from other programs, such as Lotus 1-2-3, then read by PC Paintbrush for further enhancement. PC Paintbrush comes with 14 text fonts which can be displayed in up to 16 sizes in seven styles.

Compatibility Matrix: 217.0025.002

Features Matrix: 217.0030.002



INNOVATIVE SOFTWARE

9300 W 110th St
Suite 380
Overland Park KS 66210

(913) 383-1089

► Fast Graphs

A business graphics package

Price \$350 purchase

Environment Computers: IBM PC or PC XT with a color card. Main storage: 128K bytes. Source language: compiled BASIC.

Capabilities Interfaces to Microsoft Multiplan, Sorcim SuperCalc, VisiCorp VisiCalc, Lotus 1-2-3, or any program using ASCII format files. Free-drawing mode. Scales axes and titles. Creates graph legends. Includes Help menus.

Description Fast Graphs is a graphics and plotting program that translates numerical reports into color graphic reports. It compares up to six sets of data on a single graph. Users can enter data either manually or directly from spreadsheets or any member of the Innovative Software Executive Series, including T.I.M. III.

Point and line graphs include single or comparative lines on one graph; least-squares, line, or scatter graphs; and up to six comparative lines per graph. Pie charts include up to 12 slices and are automatically scaled and labeled. One or several slices can be pulled out, and automatic percentages can be calculated for each slice. Bar charts are single, comparative, or stacked, with horizontal or vertical orientation in either two or three dimensions. Draw-mode functions include characters, shadowing, circles, boxes, arcs, and points and lines for editing or creating new designs or background screens.

The slide show feature allows users to create charts, graphs, and screens of text, arrange them, and display them automatically on the computer.

Users can produce hard copy on numerous color or black-and-white printers, including IBM Graphics, Epson, Okidata, Toshiba, C. Itoh, and IDS Prism. Fast Graphs supports multipen plotters using high-resolution vector-drawing routines.

Compatibility Matrix: 217.0025.002
Features Matrix: 217.0030.002

INTERACTIVE PICTURE SYSTEMS

42 E 23rd St
New York NY 10010

(212) 475-7053

► MOVIE MAKER

An animation tool

Price \$60 purchase

Environment Computers: Apple IIe, Commodore 64, and all Atari microcomputers. Main storage: 48K bytes. Source language: not specified.

Capabilities Speed control. Freeze frame. Rewind. Fast forward. Zoom. Area fill. Text and font creation. Real-time animation.

Description MOVIE MAKER is an animation tool for designers, art directors, and producers with no programming experience. It emulates traditional cell animation by creating characters, sequencing movement, and performing multilayer choreography.

The package includes three components: an animation maker, editor, and compiler/playback system. Home computer owners and communications professionals can use this package to produce graphics utilities, short movies, and games.

Compatibility Matrix: 217.0025.002
Features Matrix: 217.0030.002

KOALA TECHNOLOGIES CORP

2065 Junction Ave
San Jose CA 95131-2105

(408) 946-4483
(800) KOA-BEAR

► Executive Presentation Kit

A presentation graphics package

Price \$300 purchase

Environment Computers: those running under PC-DOS. Main storage: 192K bytes. Source language: not specified.

Capabilities Thirty chart types. Customizes charts with color, pattern, and font options. Floating text and drawings. Input from spreadsheet files, including Lotus, Multiplan, and SuperCalc, or from standard data files. Input through keyboard or through several tablets, mice, lightpens, joysticks, and digitizers.

Description The Executive Presentation Kit is designed for ease of use, allowing the noncomputer business user to enhance presentation charts using pull-down menus and a variety of input devices.

More than 30 chart types are offered in this system, including Gantt, line, pie, high-low, and column charts. Three-dimensional charting is possible. The system handles manual input or data from most spreadsheet programs.

The package includes a draw option to further enhance chosen charts and a text option that allows title placement in a variety of fonts and colors. The Executive Presentation Kit allows creation of slides, hard copy, and overhead transparencies by supporting a variety of printers and plotters and the Polaroid Palette. The slide show capability allows the user to employ dissolves and curtain effects.

Compatibility Matrix: 217.0025.002
Features Matrix: 217.0030.002

LCS/TELEGRAPHICS

261 Vassar St
Cambridge MA 02139

(617) 547-4738
(800) 437-0036

► TelePaint

A business graphics package

Price \$149 purchase

Environment Computers: those running under MS-DOS. Main storage: 256K bytes. Source language: C and Assembly. Other requirements: IBM Color Graphics Card or compatible, graphics or color graphics monitor, Microsoft-compatible mouse.

Capabilities Captures and enhances Lotus 1-2-3 graphs. Illustrates and creates graphs, charts, and maps. Produces and allows editing of organizational charts. Can create transparencies and customized memos, cards, and report covers.

Description Telepaint is a full-color graphics enhancement software package. It allows adaptation of charts and graphs created by users' personal computers for use in color printouts, slides, and overhead transparencies. TelePaint provides graphics screen painting for users of IBM PCs or compatible systems, allowing them to create full 8.5-by-11-inch pages of text and graphic combinations.

TelePaint enhances visual presentation of graphs generated by Lotus 1-2-3 and other business productivity software. Labels, captions, and full paragraphs of text can be prepared in 16 typefaces.

TelePaint also allows users to create and edit their own images. The screen painting capability provides features that have been optimized for the full-color graphics environment of the IBM PC and compatible computers.

TelePaint is mouse driven, providing users with a natural interface to aid in operating the program.

Compatibility Matrix: 217.0025.002
Features Matrix: 217.0030.002

MADWEST SOFTWARE

2014 Chamberlain Ave
Madison WI 53705

(608) 238-4875

► Amperdump

A graphics dump utility for Apple computers

Price \$40 purchase

Environment Computers: Apple DOS and ProDOS. Main storage: 48K bytes. Source language: Applesoft and machine.

Capabilities Single-keystroke commands. Page-position selection. Interrupt command. Error handling. Cataloging. Single- or double-density plots. Normal and inverse plots. Routine or menu driven.

Description Amperdump dumps high-resolution graphics onto an Epson MX-80 or MX-100 printer.

(MX-80 printers require the Grafrax conversion.) Supported interface cards include the Epson Parallel, the Orange Micro Grappler, the Interactive Structures Parallel, and the Mountain Computer. Plots are formatted by specifying horizontal and vertical dimensions to produce 27 plot sizes for the MX-80 and 9 plot sizes for the MX-100. Amperdump includes a menu driver for stand-alone use. From the main menu, the user configures Amperdump for the appropriate hardware combination. From a second menu, the user selects the default parameters, the horizontal and vertical scale, the position of the plot on the page, and inverse or normal printing. A third menu includes a demonstration program and the screen dump routine.

Compatibility Matrix: 217.0025.003
Features Matrix: 217.0030.003

MEDIA CYBERNETICS INC

7050 Carroll Ave
Takoma Park MD 20912

(301) 270-0240

► Dr. HALO II

A graphics painting program

Price \$140 purchase

Environment Computers: those running under MS-DOS. Main storage: 256K bytes. Source language: C.

Capabilities Allows users to construct complete page layouts by merging word processing files with graphics. Provides more than 20 fonts. Allows users to add graphics, cut and paste, and scale image to page size of printer using the virtual page feature. Includes undo, scaling, smart erasing, and error handling features.

Description Dr. HALO II is an icon-driven paint program that was written using Media Cybernetic's HALO. It can be used with a mouse, joystick, digitizer, touchpad, or keyboard. Icons that include grids, filled and unfilled circles, ellipses and boxes as well as pencil, paint can, and scissors, allow users to draw, move, cut, paste, and rubberstamp images. These functions combine with choice of colors, patterns, symbols, line widths, type faces, and airbrush densities.

Advanced features include virtual page, undo, scaling, curve fitting, menu switching, symbol creation, image rotation and overlay, and snap grid. Dr. HALO II also includes an image grabber that works with IBM and Hercules graphics cards, which can capture graphics form all bit-mapped graphics packages.

Compatibility Matrix: 217.0025.002
Features Matrix: 217.0030.002



MEDIA CYBERNETICS INC

7050 Carroll Ave
Takoma Park MD 20912

(301) 270-0240

► HALO

A graphics toolbox

Price \$250 purchase

Environment Computers: those running under MS-DOS. Main storage: 256K bytes. Source language: Assembly.

Capabilities Allows users a variety of subroutines, providing users with point, line, arc, circle, and other functions. Controls texture and color quality and includes fonts, animation, and image compression features. On-screen slide shows can be created. Interfaces with a large selection of printers, plotters, and cameras with a variety of languages.

Description HALO is a complete toolbox of fast graphics subroutines, which are compatible with a variety of languages, applications, and hardware. The extensive primitives provide users with point, line, arc, circle, ellipse, and other capabilities. Advanced features include hatch style, pattern fills, and dithering commands, which control texture and color quality. Fonts, world coordinates, animation, and image compression features are also included.

Designed to be device independent, HALO supports a variety of IBM PC-compatible monochrome and color boards. A variety of printers, plotters, cameras, monitors, and digitizers can be interfaced with HALO.

Compatibility Matrix: 217.0025.002
Features Matrix: 217.0030.002

MEDIA CYBERNETICS INC

7050 Carroll Ave
Takoma Park MD 20912

(301) 270-0240

► NIMBUS

A business graphics program

Price \$195

Environment Computers: those running under MS-DOS. Main storage: 512K bytes. Source language: Lat-tice C.

Capabilities Generates several types of charts and graphs from numerical data. Reads data from DIF files of several programs.

Description NIMBUS is a device-independent business graphics program that automatically generates several styles of charts and graphs from numerical data. These styles include bar charts, pie charts, line graphs, scatter plots, and high-low graphs. A series of menus with optional help screens guide the user through functions. Users have the option of entering data sets manually or reading data from the DIF files of programs, such as Lotus 1-2-3, Visicalc, and dBASE.

In addition to 10 graph styles, NIMBUS gives users eight type styles; all colors available on their graphics board; an infinite number of screen positions; fine, medium, and bold line styles; and other features. NIMBUS also has a Virtual Rasterization Interface that allows users to model images in memory and then print to the highest resolution of their printer, instead of the limited resolution of the graphics board.

Compatibility Matrix: 217.0025.002
Features Matrix: 217.0030.002

MICRO CONTROL SYSTEMS

27 Hartford Turnpike
Vernon CT 06066

(203) 647-0220

► Advanced Space Graphics System

A computer-aided design and drafting package used with the Micro Control Systems Space Tablet

Price \$1,095 purchase

Environment Computers: those running under PC-DOS. Main storage: 256K bytes. Source language: BASIC.

Capabilities Manipulates three-dimensional images. Scales, rotates, or moves drawings about any axis. Creates complex models by duplicating or mirror-imaging components from shape table. Draws arcs and circles. Generates surfaces of revolution. Examines drawings from three simultaneous orthogonal views during construction. Adds text. Printer and plotter interface.

Description Advanced Space Graphics System is an interactive, three-dimensional computer-aided design and drafting system. Users construct and manipulate three-dimensional models, using the vendor's three-dimensional Space Tablet, a high-resolution two-dimensional tablet, or the keyboard to enter data.

The system can be used for numerous applications, including molecular modeling, architectural planning, and irregular surface modeling for engineering.

Compatibility Matrix: 217.0025.003
Features Matrix: 217.0030.003

MICRO CONTROL SYSTEMS INC

27 Hartford Turnpike
Vernon CT 06066

(203) 647-0220

► CADKEY

A design and drafting system

Price \$1,895 purchase

Environment Computers: those running under PC-DOS. Main storage: 512K bytes. Source language: C.

Capabilities Allows two-dimensional and true three-dimensional CAD. Rotates, pans, zooms, scales any pattern or section. Sends and receives three-dimensional parts from other CAD/CAM systems.

Description CADKEY is an integrated two-dimensional and three-dimensional computer-aided design and drafting program for the IBM PC and compatibles.

CADKEY incorporates the following features:

- CADKEY creates all views automatically. Change one part, and all views are automatically updated.
- Has a schema-based human interface, which is accessible by the keyboard or cursor.
- All prompts and commands can be user-modified with most PC word processors and can be converted to foreign languages.
- Provides immediate mode commands, which are commonly used commands that can be accessed from within any other system command. All construction options are available in every command.
- Plot files can be created, written on a diskette, and used to plot on a minimally configured (128K bytes) PC, independent of the dedicated workstation.

Compatibility Matrix: 217.0025.003

Features Matrix: 217.0030.003

MICROCOMPATIBLES

301 Prelude Dr
Silver Spring MD 20901

(301) 593-0683

► GRAFMATIC

A library of graphics subroutines

Price \$135 purchase

Environment Computers: those running under PC-DOS. Main storage: 256K bytes. Source language: Assembly and FORTRAN.

Capabilities Provides two- and three-dimensional graphics for scientific or engineering users of the IBM PC. Can operate with FORTRAN or Pascal.

Description GRAFMATIC links with a variety of FORTRAN and Pascal compilers to provide users with 70 routines for producing two- and three-dimensional screen graphics on the IBM PC, XT, and AT and compatibles.

Screen graphic primitives allow users to draw lines, set

mode, set points, paint or fill selected regions, control cursor, set text and graphics colors, and perform other tasks.

A user can achieve two-dimensional interactive graphics using a nondestructive cursor box, which forms and moves objects in an interactive mode. With two-dimensional plotting, the user is able to plot functions, data points with automatic scaling, axes, tic marks, curve fitting, and error bars. Bar and pie charts are also possible. Complete contour routine is available, including the labeling of contours and legend. With three-dimensional plotting and solid modeling, options include rotation, scaling, translation, and hidden-line removal. Routines will plot Z as a function of X and Y. GRAFMATIC supports a variety of FORTRAN compilers, including Microsoft, IBM, Ryan McFarland, and Lahey. IBM and Microsoft Pascal are also supported. Versions are available for the IBM Color Graphics Board, Hercules Monochrome Board, and Enhanced Graphics Card.

Compatibility Matrix: 217.0025.003

Features Matrix: 217.0030.003

MICROCOMPATIBLES

301 Prelude Dr
Silver Spring MD 20901

(301) 593-0683

► OMNILOT

Integrated graphics libraries

Price OMNILOT (S) \$195 purchase; OMNILOT (S) and (P) \$295 purchase

Environment Computers: those running under PC-DOS. Main storage: 256K bytes. Source language: Assembly and FORTRAN.

Capabilities Keys in data from menu prompts or reads from disk file. Allows creation of tabular, line, bar, or pie charts. Creates three-dimensional plots.

Description OMNILOT (S) is a screen graphics package that allows the user to create two- and three-dimensional graphics. These include line graphs, contour maps, and bar and pie charts. Users can enter a set of data points that OMNILOT will plot and then perform functions, such as fitting a curve, doing a least-squares fit, placing error bars, drawing axes, and labeling tic marks. Three-dimensional solid models also can be created, and hidden lines can be removed. Screen can be dumped to a dot matrix printer.

OMNILOT (P) is a pen-plotter driver that supports either the Hewlett-Packard or Houston Instruments DMP plotter. It also can create two- and three-dimensional graphics and interfaces with OMNILOT (S) to allow a screen preview of the pen plot.

Compatibility Matrix: 217.0025.003

Features Matrix: 217.0030.003



MICROCOMPATIBLES

301 Prelude Dr
Silver Spring MD 20901

(301) 593-0683

► PLOTMATIC

A pen-plotter driver

Price \$135 purchase

Environment Computers: those running under PC-DOS. Main storage: 256K bytes. Source language: Assembly and FORTRAN.

Capabilities Provides two- and three-dimensional graphics capabilities as a pen-plotter driver for scientific and engineering users of the IBM PC. Can operate with FORTRAN.

Description PLOTMATIC is a pen-plotter driver that allows the user to access the full capabilities of a pen plotter through FORTRAN or Pascal. PLOTMATIC provides all plotter primitives, such as pen up, pen down, and select pen.

Complete two-dimensional plotting includes functions, tabular plots, curve fitting, automatic axes generation, tic marks, labels, bars, pies, and automatic scaling. Three-dimensional plotting is also available.

PLOTMATIC interfaces with GRAFMATIC screen graphics to allow a screen preview of the pen plot. PLOTMATIC supports any Hewlett-Packard plotter or Houston Instruments DMP plotter.

Compatibility Matrix: 217.0025.003
Features Matrix: 217.0030.003

MICROGRAFX

1820 N Greenville Ave
Richardson TX 75081

(214) 234-1769

► PC-Draw

A schematic graphics and diagramming program

Price \$395 purchase

Environment Computers: IBM PC, PC XT, and PCjr. Main storage: 256K bytes. Source language: BASIC.

Capabilities Includes library of predefined symbols for flowcharts and electrical designs. Supports multiple fonts. Offers graphics functions for object scaling, rotation, and placement. Permits freehand drawing. Includes printer driver for most dot matrix graphics printers. Optional support of Hewlett-Packard HP 7470A or 7475A plotters.

Description PC-Draw allows users to produce diagrams, schematics, flowcharts, charts, and freehand drawings. PC-Draw presents a menu of predefined symbols for use in software or electrical design. Users can define a library of shapes for other applications. Users place or define shapes by using the keyboard or light pen to define points, draw freehand images, or connect two points with a straight line.

Compatibility Matrix: 217.0025.003
Features Matrix: 217.0030.003

MICROPRO INTERNATIONAL CORP

33 San Pablo Ave
San Rafael CA 94903

(415) 499-1200

► ChartStar

A business graphics system

Price \$295 purchase

Environment Computers: those running under PC-DOS. Main storage: 192K bytes. Source language: not specified.

Capabilities Produces a wide variety of chart types, including text, Gantt, and organizational charts. Also produces pie, bar, and line graphs. Creates from keyboard data or reads from several spreadsheets, including Lotus 1-2-3 and Multiplan.

Description ChartStar produces presentation-quality graphics. Charts can be plotted on paper or transparencies or can be printed on a graphics printer with a graphics monitor.

ChartStar produces text charts with nine font styles, four types of pie charts (including three-dimensional), six types of bar charts, and two types of line charts. It can also produce scatter charts, Gantt charts for project management, curve-fitting charts, and organizational charts.

With a graphics monitor, charts can be previewed on a screen before plotting. A slide show is possible by displaying a series of charts on the screen. ChartStar uses function keys and on-screen menus and provides context-sensitive help. Reads data from spreadsheet programs and any DIF file.

Compatibility Matrix: 217.0025.003
Features Matrix: 217.0030.003

MIRACLE COMPUTING

313 Clayton Ct
Lawrence KS 66044

(913) 843-5863

► GRAFCALC

A business graphics system

Price \$475 purchase

Environment Computers: those running under PC-DOS and MS-DOS. Main storage: 64K bytes. Source language: BASIC.

Capabilities Produces graphs using a variety of data. Capable of pie charts, scatter, dot, line, and bar graphs, and histograms. Graphs can be saved and printed on an Epson printer. Displays graphs on color monitors.

Description GRAFCALC is a system that has been specifically engineered for easy-to-use, high-quality presentation graphics. It provides means of producing graphs from almost any data.

Formats producible by GRAFCALC include: pie charts; scatter, dot, line, and bar graphs; histograms; graph overlays; and map graphs.

In addition to producing the graphs on a color monitor, GRAFCALC will also print the resulting graph on an Epson printer. Program options allow users to print graphics on other printers and plotters. GRAFCALC also provides an interface to VisiCalc that enables columns and rows to be plotted out of a VisiCalc model.

Compatibility Matrix: 217.0025.003
Features Matrix: 217.0030.003

MOSAIC SOFTWARE

1972 Massachusetts Ave
Cambridge MA 02140

(617) 491-2434

► SOFTPLOT/BGL

A graphics language for microcomputers

Price \$99 purchase

Environment Computers: any microcomputer running under CP/M or MS-DOS. Main storage: not specified. Source language: BASIC.

Capabilities Supports two-dimensional viewing and windows, viewports, and two-dimensional rotation of figures. Three-dimensional perspective plotting. Automatic axis and label generation. Supports the text handling, area fill pattern, and line pattern features of a variety of pen plotters.

Description SOFTPLOT/BGL is a device-independent library of graphics routines for microcomputers that run MS-BASIC. SOFTPLOT/BGL includes a set of high-level commands that can be included in the source code of an MS-BASIC program. The SOFTPLOT/BGL preprocessor translates the graphics commands into BASIC subroutine calls. The graphics subroutines referred to in the program are then linked to the main program during compilation.

EMUPLOT, a graphics printer driver, is included with SOFTPLOT/BGL. EMUPLOT allows a dot matrix printer to emulate the capabilities of Hewlett-Packard pen plotters operating under Hewlett-Packard Graphics Language (HPGL) protocol. These capabilities include stroked characters and full control over size and rotation.

Compatibility Matrix: 217.0025.003
Features Matrix: 217.0030.003

MISOSYS

PO Box 239
Sterling VA 22170-0239

(703) 450-4181

► ZGRAPH

A graphics pixel editor

Price \$25 purchase

Environment Computers: those running under LDOS. Main storage: not applicable. Source language: Assembly.

Capabilities Provides cursor control, line drawing, line erasing, text insertion, and reverse video. Mirror image with respect to either horizontal or vertical axes. Generates lines, rectangles, and circles according to user-defined specifications. Edits previously developed screens.

Description ZGRAPH allows the user to manipulate screen graphics, saving the results in data files for later. Graphics created with ZGRAPH can also be converted for use in other BASIC or assembly language programs. In addition, online help is available to the user during all operations.

Compatibility Matrix: 217.0025.003
Features Matrix: 217.0030.003



OMICRON SOFTWARE

57 Executive Park South NE
Suite 590
Atlanta GA 30329

(404) 325-0124

► PLOTTRAX

A menu-driven data plotting program

Price \$340 purchase

Environment Computers: IBM PC and PC XT. Main storage: 256K bytes. Source language: compiled BASIC.

Capabilities Generates scattergrams, line charts, pie charts, and three-dimensional bar charts. Automatic scaling with manual override. Curve fitting. Includes drivers for Okidata, IDS Prism, and IBM Color Graphics printers and the Hewlett-Packard HP 7470 plotter. Reads Lotus 1-2-3 worksheet files and files in ASCII format or Data Interchange Format (DIF).

Description PLOTTRAX is a menu-driven plotting program that converts raw data into four types of charts. PLOTTRAX also performs ANOVA, linear or eighth-order polynomial regressions, and power, exponential, and logarithmic curve fitting. Plotting options include dual- and triaxial, log-log, and semilog combinations. The program handles up to 4,000 data points. A full-screen text editor is included for editing data files. Up to eight sets of data can be plotted on the same axes.

Compatibility Matrix: 217.0025.003
Features Matrix: 217.0030.003

PALSOFTWARE CORP

1560 N LaBrea
Suite 103
Los Angeles CA 90028

(213) 465-1051

► ARTPAK Presentation System

A business graphics package

Price \$350 purchase

Environment Computers: those running under PC-DOS and MS-DOS. Main storage: 256K bytes. Source language: compiled BASIC.

Capabilities Allows freehand drawing and creation of line, bar, and pie charts. Includes ability to enhance charts with music, animation, and text. Offers 37 type fonts and ability to write musical tunes.

Description ARTPAK is an integrated drawing, animation, and music program.

It is menu driven and has the following features: a drawing board for free-form sketching; 37 type fonts; a graphing function for generating line, bar, and pie charts; and an ability to do complex animation. Package includes a graphics library of 170 predrawn images.

ARTPAK can be used to create flowcharts, organizational charts, schematic diagrams, free-form drawings, and business graphics. It also prepares slide presenta-

tions, with an option for automatic queueing of slides. ARTPAK's scrolling capability allows users to connect an unlimited number of images into a single drawing.

Users can produce text shows with built-in text editor. These presentations can include animation and music, 35mm slides, overhead transparencies, printed color visuals, and lengthy animated shows. The software supports dot matrix and color printers and plotters.

Additional libraries of pictures are available. An optional animation utility allows users to mix animation created using ARTPAK with their BASIC programs.

Compatibility Matrix: 217.0025.003
Features Matrix: 217.0030.003

PEACHTREE SOFTWARE

4355 International Blvd
Norcross GA 30093

(404) 564-5700

► Business Graphics System

A business graphics package

Price \$295 purchase

Environment Computers: any microcomputer running under PC-DOS, CP/M, or MS-DOS. Main storage: 128K bytes. Source language: Peachtree Graphics Language.

Capabilities Eight display colors. Plot windowing and overlaying. Various fill patterns, line styles, symbols, and labeling and formatting options. Help functions. Bar, line, and area graphs. Pie charts. Histograms. Scatter charts with linear regression. Critical ratio graphs. Single- and double-sided horizontal bar charts.

Description Business Graphics System creates 10 types of charts using various menus and prompts. Users define chart characteristics, enter data to be represented, and output graphs to a printer or plotter.

Users can graph data from on-screen forms, PeachCalc Electronic Spreadsheet files (or spreadsheet files in a similar format), or any numeric data file created through an ASCII text editor, including the PeachText Word Processor.

Different data files can be graphed without changing chart specifications, or one data file can produce different kinds of charts. Users can copy, rename, or delete a file and obtain a listing of all the files on a disk by file label or data type.

Business Graphics System graphs can be printed on multipen plotters and dot-matrix printers.

Compatibility Matrix: 217.0025.003
Features Matrix: 217.0030.003

POWERSOFT

17060 Dallas Pkwy
Suite 114
Dallas TX 75248

(214) 733-4475

► Power Draw

A graphics screen editor

Price \$40 purchase

Environment Computers: TRS-DOS. Main storage: 32K bytes. Source language: Assembly.

Capabilities Single- and double-width display. Grid mode for centering graphics. Trace mode that displays cursor. Screen select (top, bottom, right, and left). Reverse video. Menu driven. Reads and write data files in six formats for use with BASIC or Assembly language programs.

Description Power Draw is a graphics screen editor that mixes graphics and text. Keys or a joystick are used to draw and erase. Three routines are included in the program. **PLAY/CMD** steps through the file one frame at a time when the space bar is depressed or when a timing interval is preselected. **PLAY/BAS** displays files in BASIC. **PMERGE/CMD** merges two or more buffer files. Supported printers include the Epson MX-80 (with or without the Graftrax conversion). Graphics can be saved in storage buffers and stored on disk or tape.

Compatibility Matrix: 217.0025.003

Features Matrix: 217.0030.003

PRECISION VISUALS

6260 Lookout Rd
Boulder CO 80301

(303) 530-9000

► DI-3000

An interactive set of graphics subroutines

Price From \$3,000-\$28,000 purchase, depending on system configuration

Environment Computers: various microcomputers running under UNIX. Main storage: not specified. Source language: FORTRAN-77.

Capabilities Device independent. Useful in development of graphics application programs. Supports three-dimensional transformations, interactive selection of colors, and computer-aided design/computer-aided manufacturing essentials, such as pick and segment support functions.

Description DI-3000 is an integrated system of graphics software tools consisting of 160 user-callable FORTRAN subroutines. The system supports a wide range of interactive development tools for digitizing, menu functions, and computer-aided design, such as area fill and patterning, graphic-arts-quality text, snapshot debugging, and picture metafile.

DI-3000 is based on a networking structure and is effective in multitasking and distributed processing environ-

ments. The network also permits application program interaction with several graphics devices concurrently. Using intelligent device drivers, DI-3000 takes advantage of graphics hardware features.

Compatibility Matrix: 217.0025.003

Features Matrix: 217.0030.003

PRECISION VISUALS

6260 Lookout Rd
Boulder CO 80301

(303) 530-9000

► GRAFMAKER

A set of business graphics subroutines

Price From \$1,400-\$13,000 purchase, depending on system configuration

Environment Computers: microcomputers running under UNIX. Main storage: not specified. Source language: FORTRAN.

Capabilities Generates pie, bar, and line charts in either full color or area fill patterns. Horizontal or vertical orientation. Grouped bars and exploded pie slices. Optional background grids. Multiple y axes on single chart. Chart overlay. Allows placement of two or more charts on a single page or screen.

Description GRAFMAKER is a device-independent library of business graphics subroutines that can be called from programs written in any high-level computer language. Users can construct specific data structures or graph formats and use them repeatedly with new or existing data. Any preset format can be overridden or changed from within program control. GRAFMAKER allows direct calls to Precision Visual's DI-3000 graphics subroutine library for more sophisticated graphic effects.

Compatibility Matrix: 217.0025.003

Features Matrix: 217.0030.003



PRIMESOFT CORP

PO Box 40
Cabin John MD 20818

(301) 229-4229

► **The Prime Plotter**

A business graphics package

Price \$240 purchase

Environment Computers: Apple II, II+, and IIe. Main storage: 64K bytes. Source language: not specified.

Capabilities Generates pie, bar, line, scatter, logarithmic, and high-low-close charts. Multiple clustered and stacked bar charts. Figure charts. Pie charts with unlimited slices or groups of one to four pushed and/or exploded slices. Statistical analysis with normal, gamma, and chi-square distributions; trend analysis; and linear, logarithmic, exponential, inverse logarithmic, geometric, and n th-order polynomial curve-fitting regressions. Includes data editor. Reads DIF files generated by VisiCalc.

Description The Prime Plotter is a menu-driven program that plots data points or mathematical expressions. A variety of statistical operations can be performed on data sets. The Prime Plotter is a modular system; each element, such as the statistical analysis routines, plotting routines, selectable character sets, and presentation slide show system, can be replaced on the main menu by other modules to suit the user's needs. Optional printer and plotter drivers are available for use with The Prime Plotter.

Compatibility Matrix: 217.0025.003
Features Matrix: 217.0030.003

REDDING GROUP INC

109 Danbury Rd
Ridgefield CT 06468

(203) 431-4661

► **GrafTalk**

A business graphics presentation package

Price \$450 purchase

Environment Computers: microcomputers running under CP/M, PC-DOS, MS-DOS, or MP/M II. Main storage: 256K bytes. Source language: not specified.

Capabilities Generates bar and stacked bar charts, pie charts, line and symbol plots, and composite plots in a variety of colors and fill patterns. Automatic labeling, with full user control of rotation, placement, and character size. Displays percentages. Supports various printers and plotters and allows the use of joysticks and lightpens for freehand drawing.

Description GrafTalk is a business graphics package that uses both menu and command modes. Graph types include bar (many variations), pie, line, scatter, dual y-axis, regression, curve smoothing, line with underfill, composite, multiple, Gantt, table, step and new auto-

matic organization, and high-low charts. Users can draw lines or create and fill in circles, arcs, boxes, rectangles, and polygons.

The minispreadsheet lets the user name rows and columns, perform simple arithmetic, and create or delete rows and columns of data. GrafTalk also accepts data from Lotus 1-2-3, Multiplan, and other software using ASCII data files.

GrafTalk's Disk Image feature lets users take advantage of highest speed and resolution of the printer being used. GrafTalk supports the 8087 coprocessor, which quickens graph processing time.

With the slide show feature, users can display previously created graphs on screen in a sequence chosen by the user. Timing can be automatic at predetermined intervals or manually controlled by the presenter.

GrafTalk's built-in editor allows creation and saving of graphs, data, or text files. GrafTalk also lets users design customized menus.

Compatibility Matrix: 217.0025.003
Features Matrix: 217.0030.003

SENSIBLE SOFTWARE

210 S Woodward
Suite 229
Birmingham MI 48011

(313) 258-5566

► **Graphics Department**

A business graphics package

Price \$125 purchase

Environment Computers: Apple DOS. Main storage: 48K bytes. Source language: compiled BASIC.

Capabilities Generates charts, lettering, and modifies previously created pictures. Capable of area, bar, line, two- and three-dimensional pie, scatter, and X-Y charts. Slide projector module allows monitoring of slide show.

Description Graphics Department allows users to enter and save business, to create charts on current and future business plans, and to display presentations on a video screen. The package saves both graphics and supporting data on disk. Thirty letter styles are available in five sizes, six colors, and five directions.

A slide projector module provides monitor display of slide show. A printer driver is incorporated. The system is Applemouse compatible.

Compatibility Matrix: 217.0025.003
Features Matrix: 217.0030.003

SENSIBLE SOFTWARE

210 S Woodward St
Suite 229
Birmingham MI 48011

(313) 258-5566

► Image Printer

A graphics and printing utility

Price \$50 purchase

Environment Computers: Apple IIe, II+, and compatible computers. Main storage: 48K bytes. Source language: Assembly.

Capabilities Adds text anywhere on the screen. Shrinks images to half size. Expands images to 6 times normal size. Image sizes range from 1.6 by 2.0 inches to 14 by 12 inches. Prints vertically or horizontally.

Description Image Printer II captures images from charting programs and arcade and adventure games. It customizes the image by allowing users to add titles, lines, borders, and boxes; color fill screen portions; invert images (e.g., photographic negative); or scroll images in four directions. A graphic window frame outlines the section to be printed.

Compatibility Matrix: 217.0025.004
Features Matrix: 217.0030.004

SOFTTEL INC

PO Box 1230
Keene NH 03441

(212) 677-6599

► Videogram

A color-graphics paint program

Price \$200 purchase

Environment Computers: those running under PC-DOS. Main storage: 512K bytes. Source language: Assembly.

Capabilities Creates color graphics. Allows freehand painting and drawing. Creates and edits charts. Applications for presentation and business graphics.

Description Videogram uses graphic digitizer tablet or mouse for input; text is input through keyboard. Palette of 64 colors is provided, of which 16 can be accessed for a single operation. Forty-three fonts are available for text.

Editing features include cut and paste, changing colors or making transparent, magnifying an image for fine painting, superimposing and positioning images or text over other images, and scaling.

Program saves last image, sequence, and image in sequence. Videogram can be bundled with Kodak Instagraphic 35mm slide outfit to produce instant color slides.

Compatibility Matrix: 217.0025.004
Features Matrix: 217.0030.004

SOFTKEY SOFTWARE PRODUCTS INC

260 Richmond St W
Suite 404
Toronto, Ontario
Canada M5V 1W5

(416) 598-5033

► KeyChart

A presentation graphics package

Price \$375 purchase

Environment Computers: those running under PC-DOS, MS-DOS Apple DOS, ZDOS, CP/M, TP/M. Main storage: 128K bytes. Source language: Microsoft BASIC.

Capabilities Supports a variety of chart types and allows combination of chart formats on the same page. Copies existing charts, allowing creation of standard chart formats for easy updating. Stores data and chart characteristics in its own filing system. Accepts data directly from keyboard or from many electronic spreadsheets. Accesses ASCII data.

Description KeyChart can prepare full-color presentation graphics, including bar, line, x-y, scatter, horizontal bar, pie, text, and bar and line charts. These formats can also be combined on the same page.

KeyChart is menu driven, with a fill-in-the-blanks format that provides automatic default values for every chart characteristic. Accepts data directly from the keyboard or from most spreadsheets or ASCII data or text files. Users have full control of size and location of a chart, and charts can be previewed in full color at full size. A page layout preview allows simultaneous previewing of one or several charts as they will be plotted on the page. A font preview displays the chart on the screen in one of eight font types for screen imaging. An on-screen editing feature allows editing of a chart while in the page layout preview mode, thereby eliminating replotting.

Other features include up to 99 lines of horizontal or vertical floating titles with each chart, plotting capability of 99 variables across 975 observations, ability to automatically calculate two independent axes, and support of both vertical and horizontal grid lines.

Compatibility Matrix: 217.0025.004
Features Matrix: 217.0030.004



SOFTWARE PUBLISHING

1901 Landings Dr
Mountain View CA 94043

(415) 962-8910

► pfs:graph

A graphics program

Price Purchase: \$125 (Apple II); \$175 (Apple III); \$140 (IBM)

Environment Computers: those running under Apple DOS or PC-DOS. Main storage: varies. Source language: Pascal.

Capabilities Bar graphs. Line graphs. Pie charts. Automatic scaling. Labeling. Optional grid overlay (up to four graphs overlaid on a single axis grid). Color display and plotting. Prints up to four different bar or line graphs on one chart. Menu driven.

Description pfs:graph creates and prints graphics. The user enters and edits the data and defines the graph format. To compare different types of data, more than one graph can be plotted on the same x-y axis. Various patterns and symbols are used to distinguish data types. Cumulative graphs are created by stacking bars on a bar graph. Data can be entered manually or read from VisiCorp's VisiCalc or other Software Publishing programs, such as PFS:File and PFS:Write. Although the program scales the y axis automatically, the user can adjust the minimum and maximum values of y, as well as the number of axis divisions. Graphs can be displayed in color. Supported printers include the Apple Silentype; Epson, C. Itoh, and IDS Prism printers; and other printers used with the Grafrax or Grappier conversion. Plots can be produced in color with a Hewlett-Packard 7470A Graphics Plotter. Graphics can be saved on a diskette.

Compatibility Matrix: 217.0025.004
Features Matrix: 217.0030.004

STRATEGIC LOCATIONS PLANNING

4030 Moorpark Ave
Suite 123
San Jose CA 95117

(408) 985-7400

► Atlas AMP

A business graphics and mapping package

Price \$449 purchase

Environment Computers: those running under PC-DOS or MS-DOS. Main storage: 256K bytes. Source language: compiled BASIC.

Capabilities Maps down to the ZIP code and census-tract level. Plots data files that match map files through the use of LoadData utility program. Maps can be zoomed in and out, colored, and shaded to represent demographic data. Dot-density mapping of data points. Comments anywhere on a map. Draws variable size circles around any point on a map.

Description Atlas AMP is a business graphics package that does mapping on a microcomputer. Atlas AMP allows users to create maps and display data at the state, county, census tract, or ZIP code level. It also maps ADIs and DMAs (advertising regions), MSAs (metropolitan areas), Canadian geographies, and countries of the world.

Atlas AMP can be used for sales force analysis, market penetration studies, demographic studies, site selection, and political campaign planning. The user can create data and boundary files as well.

Compatibility Matrix: 217.0025.004
Features Matrix: 217.0030.004

TANDY CORP

1800 One Tandy Center
Fort Worth TX 76102

(817) 390-3011

► Lumena

A graphics design system

Price \$300 purchase

Environment Computers: those running under MS-DOS. Main storage: 256K bytes; 384K bytes for cycling and animation. Source language: not specified.

Capabilities Freehand drawing with Tandy's GT-2000 Graphics Tablet or Digi-Mouse. Menu driven. Cycling and animation functions. Copying, scaling, rotating, and color selection functions are built into program.

Description Lumena is a versatile tool for artists, designers, and illustrators. The program is intended to be easy to use with a menu-driven design. With the GT-2000 Graphics Tablet, freehand drawing is touch controlled.

Users select colors, shapes, letters, and fonts or draw freehand. Images can be duplicated, moved, resized, and rotated. Letters and blocks can be filled with solid, banded, or graduated colors. Lumena combines the two intensities of Tandy 2000's eight basic colors into 28 additional dithers or blends. Lumena also provides cycling and animation functions.

Compatibility Matrix: 217.0025.004
Features Matrix: 217.0030.004

**VISUAL COMMUNICATIONS NETWORK
INC**

238 Main St
Cambridge MA 02142

(617) 497-4000

► VCN ExecuVision

A presentation graphics program

Price \$395 purchase

Environment Computers: those running under PC-DOS. Main storage: 256K bytes. Source language: not specified.

Capabilities Generates presentation-quality graphics. Library of predrawn images and symbols. Electronic cut-and-paste editor for moving, combining, and erasing images, objects, or text. Plot function generates pie, bar, and line charts, using optional symbols. Limited animation facility. Supports dot matrix printers.

Description VCN ExecuVision is a presentation program for the IBM PC, XT, and AT and compatible personal computers. It allows users to combine keyboard data, text, and images into presentation-quality graphics.

ExecuVision features a palette of 64 colors, sketching capabilities, a plot function, animation, and graphics tools (including electronic scissors and paste, erasers, rulers, and scalable geometric shapes). VCN ExecuVision also offers 19 graphics libraries consisting of thousands of subject-specific predrawn images.

Output options include CRT displays, 35mm slides and, with additional hardware, color hard copies.

Compatibility Matrix: 217.0025.004

Features Matrix: 217.0030.004



AUERBACH On . . .

Word Processing

INTRODUCTION

Advances in computer technology during the past 25 years have caused companies to change the ways they conduct business and produce goods. Offices began to incorporate computer technology with the invention of automated typewriters, which have quickly evolved into current word processing systems.

During the 1970s, word processing was a leading topic of discussion in the business world. Its popularity grew during the early 1980s as it evolved toward an integrated, totally automated office system. Some office automation systems encompass automated filing and retrieval, electronic mail, interfaces to intelligent copying systems, and integrated data and word processing.

Office-related costs continue to spiral: recent studies indicate that preparing a one-page letter costs more than \$7.00 in a traditional office. The steady increase in office communications requires large numbers of employees; salaries account for approximately 50 percent of business costs. The U.S. Department of Labor predicts that by 1985 about half the U.S. work force will be employed in office and white-collar jobs. WP systems process paperwork more efficiently.

To remain competitive, businesses must increase productivity, but office productivity has increased by only about 4 percent since 1960; manufacturing productivity has increased 20 percent during the same period. However, the average investment in equipment per farm or factory worker has been 15 to 30 times that for the office worker; office workers have not been provided with the advanced tools and technology needed to match productivity improvements in agriculture or industry.

Studies show that typists using WP equipment can process more typewritten documents than can secretaries using electric typewriters in a traditional secretarial environment.

DEFINING WORD PROCESSING

One of the easiest ways to conceptualize WP is to compare it to data processing. Both DP and WP use automation, but they differ in the types of processing involved. DP is a highly structured system of computerized operations that are performed primarily on numerical and statistical data. Word processing, on the other hand, involves typing procedures performed on automated typewriters. WP uses English language commands instead of the special computer languages of DP. Word processing transforms words from voice recordings, handwritten drafts, or revisions of typed material into typewritten or printed documents.

Word processing can therefore be defined as a system of processing paperwork and producing documents through the use of automated equipment, employees with specialized skills, and standardized procedures. Each of these components is essential to a WP system.

Automated Equipment

All WP systems have automated typewriters, and many also include dictating machines. Advances in technology that have made computer components much smaller and less expensive have enabled manufacturers to incorporate computer capabilities into typewriters and dictation systems. Using automated typewriters, typists can produce documents that are free of erasures and corrections; productivity is increased and quality is improved.

A basic difference between automated and electric typewriters is that the automated models can store keystrokes, usually in a magnetic medium such as magnetic cards, cassettes, or disks. Magnetic cards can store 1 or 2 pages of text; cassettes, about 40 to 80 pages; and diskettes, approximately 60 to 100 pages (see Table 1). These storage features enable typists to revise text quickly and easily without retyping entire documents; correcting errors by backspacing and striking over also

Table 1. Magnetic Media: Storage Capacity

Medium	Storage Capacity (Pages)	Cost Per Page \$	Search Speed (sec)
Magnetic Tape	40-80	0.30	3
Cassette			
Magnetic Card	1 or 2	1.00	17
Diskette	60-100	Less than 0.10	Less than 1
Minidiskette	30-100	Less than 0.10	Less than 1
Disk	More than 2,000	Less than 0.10	Less than 1

increases speed. Documents are printed at speeds of 170 to 550 words per minute.

The use of a dictating machine improves efficiency: dictating to a machine is about four times faster than handwriting, and, unlike dictating directly to a secretary, it does not require the presence of two people. A typical business letter (about 150 words) takes about 3 minutes to dictate but about 12 minutes to write. A manager making \$20,000 annually (\$0.16 per minute) saves his or her company about \$1.50 per letter by using a dictating machine (9 minutes \times \$0.16 per minute = \$1.44). Many WP systems have centralized dictating machines that are accessed through the telephone or through specially wired microphones. Dictation is recorded at the WP center for transcription by a WP operator.

Specialized Skills

Secretarial responsibilities can be categorized as either correspondence or administrative functions. Correspondence duties include transcribing, typing, and proofreading. Administrative duties include such nontyping functions as processing mail, receiving telephone calls and office visitors, filing, and performing other duties to assist management.

In a WP environment, correspondence duties are performed by WP operators (correspondence specialists), who are freed from the generalized responsibilities of the traditional secretarial role to concentrate on processing documents. Administrative duties are performed by administrative assistants, administrative secretaries, or executive secretaries, who become administrative specialists performing only light typing.

Standardized Procedures

Standardized procedures for accomplishing tasks are essential to an efficient WP system. Principals, correspondence employees, and administrative employees are usually issued a procedures manual that describes how work must be input and processed in the WP system.

WORD PROCESSING SYSTEMS

WP systems can be categorized as centralized or decentralized. Each category has advantages and disadvantages.

Centralized Word Processing

Centralized WP is currently more widely used than decentralized WP. In a centralized system, WP operators are grouped in a central location to process the typing of several principals or departments (see Figure 1). Centralized WP requires rearrangement of the secretarial support structure. Managers may have to give up their private secretaries and share an administrative assistant; however, many managers are loath to relinquish their secretaries. Secretaries may be asked to move to a WP center and give up working for one manager. Disruptions of this nature can cause severe employee unrest, and companies should carefully consider the ramifications of centralization before making major changes. If centralization is necessary, however, steps should be taken to create positive employee attitudes. For example, employees should participate in planning and implementing the WP system.

One advantage of a centralized environment is the creation of an atmosphere that allows both the specialized WP operators and administrative secretaries to be more productive. The work flow can be distributed more evenly, and better employee supervision is possible. The equipment is operated by specialists and is therefore used more efficiently. Evening shifts can be added to increase equipment utilization.

The disadvantages of centralized WP should also be noted, in particular, the problems created by the isolation of WP centers. Morale may suffer when employees lose contact with the persons for whom they produce work. Many employees resent going to a typing pool atmosphere and losing the status of working for one manager. Principals may hesitate to use distant or unfamiliar secretarial support services and may resent the standardized procedures for submitting work to WP centers. WP operators may find it difficult to process confidential, specialized, or complicated documents when close communication with principals is not possible. These factors must be carefully weighed when considering the implementation of centralized word processing.

Decentralized Word Processing

Some organizations believe that a personalized support structure is essential and prefer to implement a decentralized WP system, in which the WP operators are placed in small groups closer to the principals for whom they work (see Figure 2). Decentralized WP can be implemented in the following ways:

- Establishing work clusters or teams—In this approach, one or more administrative secretaries and one or more WP operators are located in the same area and provide secretarial support for a small group of principals.
- Installing automated typewriters—Some organizations provide all secretaries with inexpensive automated typewriters; the existing secretarial arrangement is unaltered.
- Using optical character recognition (OCR) systems—OCR scanners read documents typed on electric typewriters and convert the characters to magnetic media that can be edited on WP equipment. (OCR is discussed later in this report.) Using OCR equipment allows the majority of

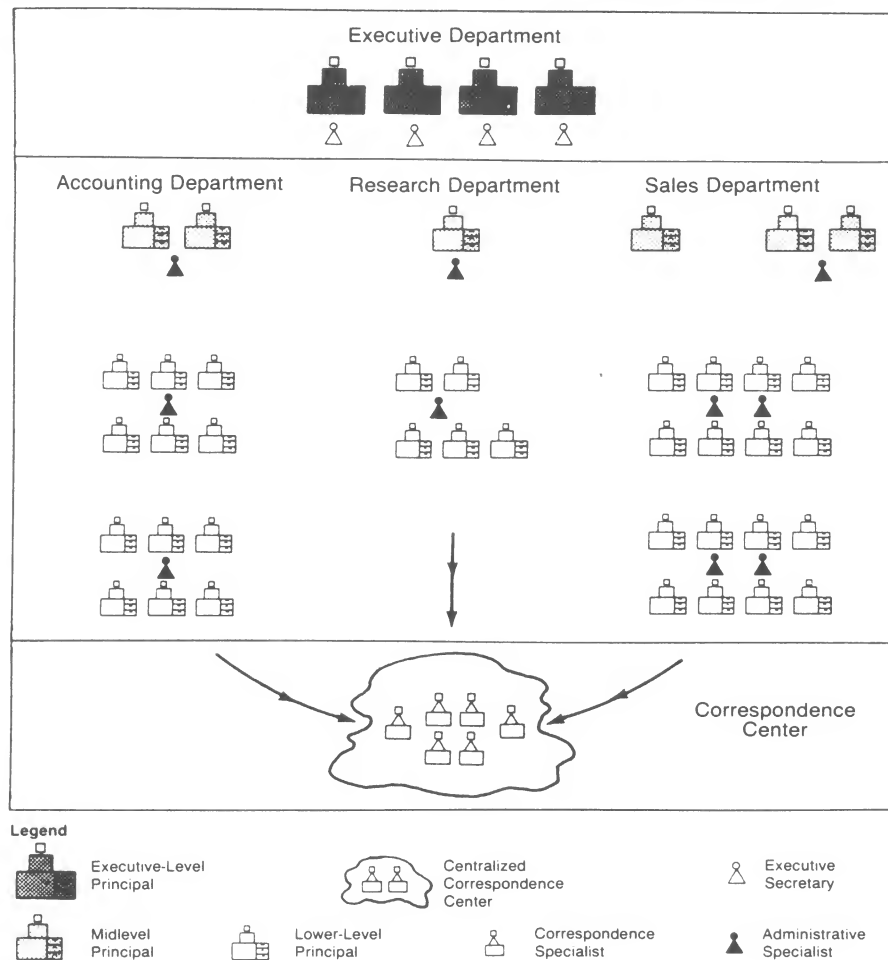


Figure 1. Centralized Word Processing

secretaries to remain in their positions because WP operators are not needed to input documents into the WP system.

- Sharing a word processor—An automated typewriter can be shared by a group of secretaries. The secretarial arrangement is not altered in this system, but secretaries must schedule time on the machine.
- Decentralizing within a centralized WP center—Some organizations combine centralization and decentralization by permanently assigning one or two operators in a centralized WP center to perform the WP tasks of one principal or department.

A major advantage of decentralized WP is that it does not greatly alter the existing secretarial structure. Thus, morale problems associated with employee resistance to change are avoided because principals do not have to relinquish their secretaries and secretaries do not have to work in a typing pool environment. Another advantage of decentralized WP is that secretarial support is closer to principals, allowing more effective communication and eliminating the feeling of isolation.

The potential disadvantages of decentralized WP are lower document production than in a centralized system because of the distractions of the office environment, and less efficient use of equipment. Measuring work becomes more difficult because secretaries perform many duties other than typing and employees are generally not closely supervised.

APPLICATIONS

Lengthy documents, such as manuals, reports, proposals, directories, legal briefs, contracts, and catalogs, that require several editing cycles can be produced economically with WP equipment. Operators revise and correct text without erasing or retyping. Government agencies and other organizations are benefitting from their WP systems through reduced salary expenses and increased productivity.

Companies in the private sector have also increased productivity, and many are using WP to keep up with expansion. One manufacturing company implemented WP in 1975 after

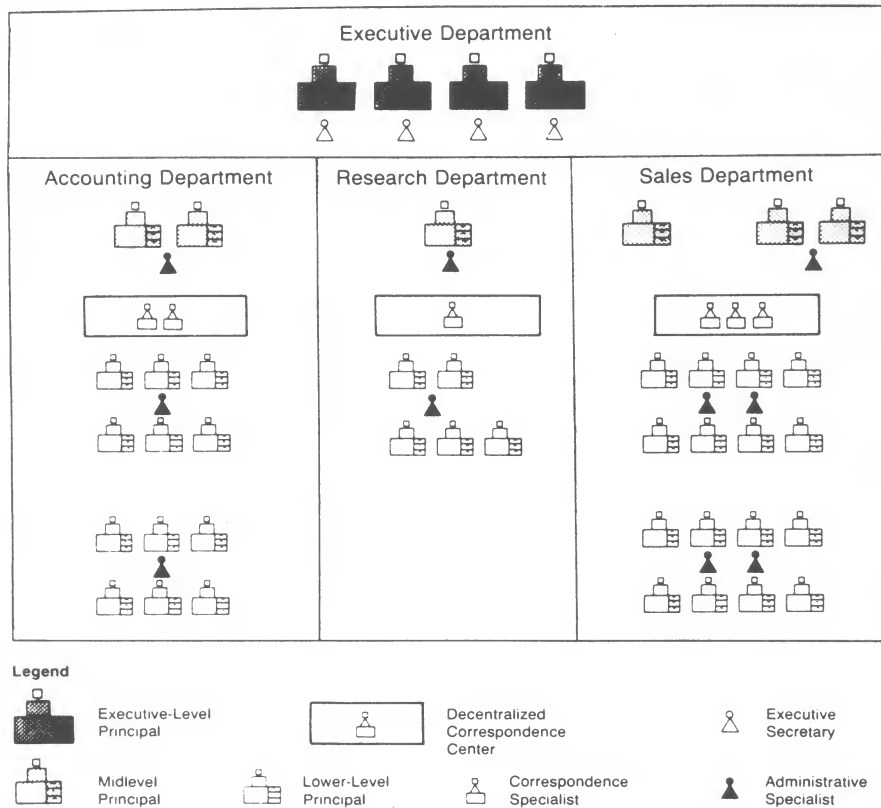


Figure 2. Decentralized Word Processing

experiencing serious backlog problems, missed reporting deadlines, and an increased work load caused by management staff growth. During the next five years, 125 originators were hired, and the amount of work produced by the WP department doubled—with no increase in support staff.

In many organizations, however, increased productivity reflects an increase in the work load. WP equipment is sometimes used in areas that were not included in the original plans, and the number of typists is not reduced.

Many organizations are candidates for WP systems; typewriters with basic automated features can be purchased for less than \$2,000—little more than the cost of an electric typewriter. Advanced word processing systems offer substantial benefits for organizations that produce many original documents as well as lengthy reports and manuals that go through several revision cycles. Technological advances in phototypesetting and printing enable companies with such requirements to prepare typeset documents in house. Geographically dispersed companies that must quickly send and receive documents can save time and money by using the optional electronic mail features offered with many WP systems.

The benefits of word processing discussed thus far are salary savings and increased productivity. Other very important

benefits include higher-quality output and improved efficiency among managers and administrators. These benefits frequently surprise organizations whose initial concern was improving support staff productivity. Many organizations with considerable amounts of paperwork, including banks, law firms, insurance companies, educational institutions, engineering and architectural firms, hospitals, government agencies, manufacturers, and financial institutions, have gained a competitive edge by processing their paperwork more economically and quickly through their WP systems.

WORD PROCESSING EQUIPMENT

Word processing equipment ranges from intelligent typewriters to computer-based systems. Options include communications; specialized application packages; and interfaces to such peripheral devices as high-speed printers, OCR scanners, phototypesetters, and mass storage units.

Intelligent Typewriters

Intelligent typewriters represent the low end of the WP equipment line; these are the least expensive word processors and can be purchased for approximately \$2,000. Some experts believe that intelligent typewriters will eventually replace

most, if not all, electric typewriters. The capabilities of intelligent typewriters are adequate for offices that require such basic automated input features as automatic centering, decimal tabulation, and automatic error correction. The typewriters cannot perform major text processing operations, however, and they do not provide long-term storage—only one or two pages can be stored for limited revisions. These systems are widely used in offices that have minimal WP requirements and wish to provide basic automated capabilities to typists and secretaries without rearranging the secretarial support structure.

Standalone Nondisplay Units

A standalone nondisplay unit consists of a basic keyboard and storage console configured as an independent system; other WP systems use separate computers or minicomputers to support their automated capabilities.

Standalone nondisplay word processors are suitable for processing original and duplicate documents and a limited number of stored documents. The processors can perform limited revisions; however, because of their limited storage capacity (usually magnetic cards or cassettes) they are not suitable for processing lengthy documents with many revision cycles.

Most nondisplay standalone units use IBM Selectric-like printers, which print approximately 175 words per minute. Many newer units incorporate daisy wheel printers with speeds up to 550 words per minute. Nondisplay standalone unit prices, currently between \$5,000 and \$10,000, are steadily decreasing.

Standalone Display Units

Standalone display word processors are among the most popular automated typing systems. Such units typically have a display screen above the keyboard as well as a separate printer. Some vendors have developed single-line display processors by adding single-line LED or gas plasma displays to their standalone nondisplay units. The screen, which can vary in size from one line to a full page, makes editing easier because typists can see what is being input and make additions or corrections before a hard copy is printed. Some display units can sort, and most can perform alphanumeric string search and/or replacement. Storage is typically on diskettes.

The separate printer (usually a daisy wheel unit) can operate automatically while the typist is using the keyboard for input; productivity is thereby further increased.

Standalone display units offer a range of automated features that enable typists to automatically process and revise all types of correspondence, reports, statistical and columnar documents, stored paragraphs, and forms. The units can process duplicate letters for a limited number of recipients, and they can process lengthy reports with revisions. Standalone display units are currently priced between \$6,000 and \$10,000 and, like the nondisplay units, are decreasing in price.

Shared-Logic Systems

A shared-logic system typically consists of a CPU containing the logic for text editing and printing, storage units, several input and editing terminals, and several printers. Such a system is economically advantageous for organizations that require several workstations and printers because the cost per station is reduced through the use of shared logic.

Shared-logic systems can produce all standard documents that an office requires, including correspondence, duplicate letters, reports, statistical and columnar documents, stored paragraphs, and forms. The systems have either short- or long-term storage capabilities. The sophisticated computer logic used with these systems makes them especially suitable for processing large volumes of duplicate letters for many recipients and lengthy reports or manuals with multiple revisions. Another major advantage of shared-logic systems is that they enable several operators in the same or different offices to work simultaneously on one large document.

Shared-logic systems that provide DP capabilities offer a cost-effective alternative for organizations that require both a small business computer and a word processor.

Computer-Based Systems

Computer-based word processors use text editing programs with in-house computers or those of a computer time-sharing company. Such systems are frequently called computer-shared systems.

In a time-shared system, the user's WP terminal is linked to the computer over telephone lines; text is entered into the computer as it is typed on the terminal keyboard. A system based on an in-house computer is accessed through the terminal, which is typically a standalone display unit with a communications interface.

Computer-based systems can process any office document; they have the largest storage capacity and most sophisticated revision and document processing capabilities of any current WP system. These systems offer the most cost-effective means of handling complex documents, and they can be used to access data bases, provide computer-based message systems, and input directly to DP and phototypesetting interfaces.

Word Processing Equipment Interfaces

The capabilities of WP equipment can be expanded through the use of OCR, phototypesetting, and communications interfaces.

OCR scanners transcribe typewritten characters to magnetic media or input them directly into word processors, eliminating the need to retype documents. The only component needed in addition to the OCR scanner is a special typing element for the electric typewriter. Scanners read only a limited number of

fonts; however, this number is increasing. No special training is needed.

One scanner and one operator can typically process the work of approximately 10 typists. Thirty typewritten pages can be converted in 10 minutes, providing a substantial saving in time and labor cost. OCR is widely used by companies that do not wish to incur the expense of purchasing word processors for all secretarial workstations or that wish to maintain a decentralized secretarial environment.

OCR scanners are decreasing in price at the rate of 10 to 20 percent per year, and 16 of the 20 largest WP equipment vendors offer devices that use OCR. Currently, a standard OCR scanner can be purchased for about \$15,000.

Interfaces to phototypesetting equipment allow typists using WP equipment to prepare typeset documents. The process is relatively simple: typists insert special typesetting codes as they enter text. The medium on which the text is stored is then read by a phototypesetting machine that produces camera-ready (typeset) copy. This process eliminates the time and expense of retyping documents or typesetting outside the organization. Because typesetting reduces the size of a typewritten document by up to 50 percent, this process should be considered by companies that frequently prepare large documents for distribution. Considerable savings in printing and postage costs can be realized in addition to improved document quality.

Electronic mail communications options on WP equipment allow the transfer of documents or messages between WP terminals over telephone lines. A major advantage of electronic mail is that messages can be sent and received in minutes. Unlike verbal communications, electronic mail does not require both parties to be present simultaneously. In addition, a permanent record of messages is created.

SELECTING EQUIPMENT

Equipment selection should be based on the types and quantities of documents that the organization produces and on its secretarial and managerial structures. These factors can be analyzed through a feasibility study.

Feasibility Study

The feasibility study should be conducted by a team that includes representatives from every department that will be affected by the implementation of word processing. At least one person experienced in conducting WP feasibility studies should be on the team. This person may be an outside or internal consultant or a representative of a WP equipment vendor. (A vendor representative may slant the study in favor of his or her company's equipment.)

The feasibility study should be designed to obtain answers to the following questions concerning typewritten documents:

- What are the major types of documents produced by each principal and each department?

- How many originals are produced and how many copies are needed?
- What is the nature of each document (i.e., standard, complex, or confidential)?
- What is the overall typing production by principal and by department?
- How is work input (e.g., handwriting, machine dictation, shorthand)?
- When are documents needed (i.e., rush, normal, or at the typist's convenience)?
- Where do the documents go (e.g., to customers, other departments, or branch offices)?

Analysis of the feasibility study can be simplified by collecting data on forms that are coded to be read by a computer. Figure 3 is a sample recording sheet that can be used to post typing activities during the study. All categories under study have been assigned codes; these codes can be easily read by the computer, and reports on each category can be produced automatically.

Administrative tasks should also be evaluated during the study to determine the need for administrative assistants, the secretarial support structure needed by each principal and department, and which tasks principals can delegate.

Figures 4 and 5 are examples of forms that could be used to analyze administrative needs. The study should determine work loads and the type of secretarial structure needed.

Equipment Comparison

An in-depth comparison should be conducted of equipment within the organization's price range. Figures 6 and 7 are sample forms that can be used to make evaluations.

A list of the required features should be prepared (see Figure 6). A comparison of equipment features is essential to ensure that the required features are provided. Several major applications should be processed by each word processor under consideration. Performance in terms of processing time, text appearance, and required capabilities should be compared. The equipment should also be evaluated for ease of learning and use; the organization's typists should assist in this evaluation.

Cost is, of course, a major factor in selecting equipment. Rental, leasing, and purchase costs should be compared, and maintenance, training, supply, media, and other peripheral costs should be considered.

- When implementation of a WP system involves substantial reorganization, it is essential that equipment be delivered as scheduled. Delivery dates should be included in the contract.

Vendor service reliability can be checked by contacting other users; vendors should provide local references. Vendors should state in writing how long equipment repairs generally take. Some vendors lend equipment to users if repairs cannot be made promptly.



Secretary's Name _____ Date _____

Department _____ Week of _____

Manager(s) Worked for _____

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
Type of Document	Nature of Document	Author	Method of Input	When Needed	Destination	No. of Lines	No. of Pages	Type of Copy	No. of Copies

Explanation of Codes:

1. Type of Document	Letter	LTR	5. When Needed	Rush	R
	Memo	MEM		Normal	N
	Brief	BRF		Typist	C
	Manual	MAN		Convenience	
	Statistical Document	STA			
2. Nature of Document	Regular	REG	6. Destination	InterOffice	IO
	Confidential	CON		Customer	CU
				Branch	
3. Author	Williams	WIL		New York	NY
	Smith	SMI		Washington	WA
	Jones	JON		Atlanta	AT
4. Method of Input	Shorthand	SH	7. No. of Lines		
	Handwriting	HD	8. No. of Pages		
	Author Revision	AR	9. Type of Copy	Requested	
	Typist Revision	TR		Original	O
	Machine Dictation	MD		Regular	R
	Self-Authored	SA	10. Number of Copies Needed		

Figure 3. Sample Typing Activity Form

Secretary's Name _____ Department _____						
Manager(s) Worked for _____						
Date _____ Week of _____						
Please record the time spent on each of the following administrative duties	Mon	Tues	Wed	Thurs	Fri	Total Hours
Photocopying						
Making coffee						
Errands						
Maintaining supplies						
Processing mail Incoming						
Outgoing						
Recordkeeping						
Receptionist duties						
Taking shorthand						
Making appointments						
Duties requiring judgment						
Authoring correspondence						
Reading mail						
Researching						
Totals						
Please list duties you feel you could assist your manager with that you are not presently doing.						

Figure 4. Sample Secretarial Analysis Form

Principal's Name _____						
Department _____						
Date _____			Week of _____			
Please record the time spent on each of the following administrative duties	Mon	Tues	Wed	Thurs	Fri	Total
Dictating to secretary						
Machine dictating						
On telephone						
In meetings						
Reading						
Researching						
Miscellaneous:						
Please list duties you feel you could delegate to an efficient administrative assistant.						

Figure 5. Sample Principal Administration Analysis Form

Although most vendors provide a three-day training course on equipment, this period is barely adequate to acquaint operators with basic machine operations. It typically takes from three to six months to train a WP operator completely. After the initial training session, operators may have many questions and need additional assistance when they return to the office and begin to process work. Vendors should therefore be asked the following:

- Does the vendor provide follow-up assistance?
- What charges, if any, are made for retraining?
- Will managers and supervisors be trained in WP management techniques?
- Will the vendor help set up difficult applications?

A statement of the training services provided by the vendor should be incorporated into the contract.

The storage medium (e.g., disk, tape) should be checked to ensure that it meets storage capacity needs. Media costs, storage capacity, and search time should be determined.

Interface options, such as OCR, phototypesetting, and communications, are important considerations in choosing equipment. Although an organization may not use them immediately, these capabilities will add to the usefulness of the equipment as the organization's needs expand and change.

Vendor plans for software upgrades and equipment interfaces should be investigated (see Figure 7).

TRENDS

Advanced telecommunications technology in the automated office will enable WP equipment to communicate with a variety of other office equipment. Integrated office systems based on communicating word processors will link such functions as automated filing and retrieval, micrographics, phototypesetting, graphics, electronic mail, and data processing.

Telecommunications will increase the use of intelligent laser printers that receive text on magnetic media and output large volumes of copies at very high speeds. As convenience copiers, the printers can output 36 pages a minute, and multiple sets of copies can be printed at 36 words per second. Communications will allow the printers to be used by decentralized WP equipment.

Telecommunications advances will also enable word processors to interface with micrographics systems, producing microfiche or microfilm. New technologies make micrographics

Feature	Model A	Model B	Model C	Model D
Display Features Vertical Scrolling Horizontal Scrolling Page Scrolling Display Highlighting Character Size Control Line Justify Display Underscore Display Sub/Superscript Display Stored Form Recall Display Format Statement Display Printer Features Buffer Memory First Line Forms Advance End-of-Page Stop Justified Printout Sub/Superscript Printout Bidirectional Printout Simultaneous Printout Input Features Auto. Carrier Return Auto. Word Wraparound Auto. Margin Adjust Temporary Margins Auto. Decimal Tab Hyphenation Auto. Input Underline Auto. Centering Auto. Line Spacing Auto. Page Numbering Auto. Headers/Footers Auto. Pagination Text Edit Features Search Delete Global Search and Replace Block Move/Copy Column Move/Delete Auto. Repagination Auto. Widow Adjust Auto. File Sort Auto. File Select Auto. Footnote Tie-In Term Dictionary/Glossary DP Capabilities Math Capabilities				

Figure 6. Sample Equipment Comparison Form

Manufacturer	_____	Telephone	_____
Local Address	_____	Sales Rep	_____
	_____	Manager	_____
Model	_____	Delivery Date	_____
Maintenance		Equipment Options	
Company Name	_____	OCR	_____
Location	_____	Phototypesetting	_____
Telephone	_____	Communications	_____
Response Time	_____		_____
		Other	_____

System Components		Media	
Display Screen	_____	Type	_____
Printer	_____	Storage Capacity	_____
Other	_____		_____
	_____	Search Time	_____
	_____	Cost	_____
Environmental Needs		Comments on Sample Applications Processing:	
Temperature	_____		_____
Electricity	_____		_____
Humidity	_____		_____
Comments on Vendor Goals:		Features (refer to attached sheet):	
	_____		_____
	_____		_____
	_____		_____

Figure 7. Sample Equipment Analysis Worksheet

suitable for active files as well as archival storage. Paper files and file storage space can thus be drastically reduced.

Advances in telecommunications technology will increase the use of electronic mail; the use of computer-based message systems, in which messages are sent and received electronically, will also increase. Desktop terminals (executive workstations and electronic mailboxes) will be more widely used in a variety of ways. For example, an executive will use the workstations to enter, proofread, correct, and edit text; read incom-

ing messages and documents on the screen; and, by pressing a button, have them automatically filed or forwarded to someone else.

Word processing will continue to grow in popularity as equipment costs decrease and labor costs rise. More sophisticated software packages will enhance automated capabilities, and the use of such interfaces as OCR, typesetting, and communications will continue to increase, resulting in a totally integrated office system.

WORD PROCESSING/TEXT EDITING

Compatibility Matrix

218.0025.001

Vendor/Package	Compatible Operating Systems														Others		
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System		Unix	Xenix
AlphaBit Communications Lazy Writer LAZYMERGE													• •				LDOS
Apple Computer Apple Writer II	•																
Applied Microcomputer Systems DOCUMATE Word Processing																	HP BASIC
Applied Technology Ventures UniWord															•	•	
ARTSCI Magic Mailer Magic Window II Magic Words	• • •																
ATON International OmniWriter																	ATON CP/M
Beaman Porter PowerText							•										
Berzurk Systems Spell-It			•				•		•								
BOS National AutoWriter																	BOS/5, MBOS/5
Broderbund Software Bank Street Speller Bank Street Writer	• •						•										IBM PCjr, Commodore DOS, Atari DOS
Computer Development Image																	Zenith HDOS
Computer Marketing Services SCRIPT/SCRATCH							•										Commodore DOS
Compuview Products VEDIT			•		•		•		•								Zilog Z80- or Intel 8080-based systems
Cornucopia Software Electric Webster		•											•				CDOS
Cromemco WPS Writemaster																	CDOS, Cromix CDOS, Cromix
Datamed Research The Incredible Text Printer														•			

Vendor/Package	Compatible Operating Systems														Others
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	
Datamost Write-On							•								
Datatek Datatext			•		•		•		•	•					
Digital Marketing Bibliography Footnote Proofreader Writer's Pack			• • • •		• •		• • • •			• • •					
EEC Systems LEX-11															Digital Equipment P/OS
Einstein GhostSpeller GhostWriter							• •								
Emerging Technology EDIX SPELLIX WORDIX							• • •			• • •					
Hayden Software PIE Writer the Writer	• •						• •								IBM PCjr
HFK Software Qwerty							•								
Horizon Software Systems Horizon WordProcessing														• •	Idris, Coherent
Human Engineered Software HES Writer															Commodore DOS
IJG Electric Pencil Electric Pencil PC PRO-Pak							•						•		IBM PCjr
Information Unlimited Software (IUS) EasyWriter I System EasyWriter II System							• •			• •					IBM PCjr
Intecolor Spectra-Text															Intecolor 8064 under CP/M
Intelsoft DynaWriter							•								

Vendor/Package	Compatible Operating Systems														Others	
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System		Unix
International Software Alliance ProScript Text Formatter Super Mail List							•									
ITSoftware EditIT WritIT							•									
Kensington Microware Format II	•															
Leading Edge Products Leading Edge Word Processor							•									
Lexisoft Spellbinder		•	•		•		•	•		•	•					TurboDOS
Lifeboat Associates MagicPrint			•													SB-80
Lifetree Software Volkswriter Volkswriter Deluxe							•			•						
Marc Software International WordMARC							•									•
Mark of the Unicorn Mince The Final Word			•	•			•			•						
Megahaus MegaWriter													•			
Metasoft BENCHMARK Mail List BENCHMARK 3.0			•		•		•		•	•						
Micromation Gutenberg Sr	•															
MicroPro International WordStar WordStar Professional			•		•		•		•			•				
Microsoft Microsoft Word							•		•							Apple Macintosh
Muse Software Super-Text Home Office Super-Text Professional	•						•									Commodore DOS
NBI NBI Word Processor							•									



Vendor/Package	Compatible Operating Systems														Others
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	
Nordell Data Systems Easyproof Spelling Checker Easytext							•								
Oasis Systems Word Plus			•									•			
Ohio Data Base Alpha-Vue															AMOS
Owl Software Textplus							•								
Palantir Software Palantir Word Processor			•				•		•						
Peachtree Software PeachText			•				•		•						
Perfect Software Perfect Writer			•				•		•						
Professional Software WordPlus-PC WordPro 2-Plus WordPro 3-Plus WordPro 3-Plus 64 WordPro 4-Plus WordPro 5-Plus							•		•						Commodore DOS Commodore DOS Commodore DOS Commodore DOS Commodore DOS
Quark Word Juggler IIe Word Juggler III	• •														
Samna Samna Word II							•		•						
Satellite Software International PERSONAL WordPerfect WordPerfect							• •		• •						
Schuchardt Software Systems InteWord							•		•						
Select Information Services Select Write Select: The Word Processor			•		•		• •								IBM PCjr
Sensible Software Black's Law Dictionary Bookends Sensible Speller	• • •														

Vendor/Package	Compatible Operating Systems														Others
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System	
Sierra On-Line HomeWord	•														Commodore DOS, Atari DOS
Screenwriter II	•														
THE DIC-TIO-NARY	•														
Silicon Valley WORD HANDLER II	•														
Simutek Computer Products Copy Art II													•		
Sofsys Executive Secretary	•						•								
Softest LEX-86 and LEX-68			•				•		•					•	
Software Dynamics SEDIT Type															SDOS SDOS
Software Publishing PFS:Write	•						•								
The Software Toolworks PIE 1.5c Spell			•												Zenith CP/M Zenith CP/M
Softword Systems MultiMate							•								
Structured Systems Group NAD Name and Address Word Right			• •		• •		• •	• •	• •						
Supersoft CORRECTOR			•												
Tandy SCRIPSIT SCRIPSIT Spelling Dictionary SuperSCRIPSIT													• • •		
Vector Graphic MEMORITE III															Vector Graphic CP/M
VisiCorp VisiWord Plus							•		•						
Western Software Development SPELLPACK													•		
WICAT Systems Word Processor															WICAT MCS
Zenith Data Systems Magic Spell															Zenith CP/M



WORD PROCESSING/TEXT EDITING

Features Matrix

218.0030.001

Vendor/Package	System Capabilities																				
	Function-Key Driven	Menu/Command Driven	Document Oriented	Page Oriented	On-Screen Tutorial	Background Printing	Edits ASCII Files	Edits Multiple Files	Embedded Print Commands	Enhanced Printing	Horizontal Scrolling	Margin Justification	Print Preview	Proportional Spacing	Snaking Multiple Columns	Search/Replace	Undelete	Keyword Indexing	Calculator Functions	Spelling Checker	Merged Mailing
AlphaBit Communications Lazy Writer LAZYMERGE		•	•				•		•	•		•		•		•					•
Apple Computer Apple Writer II		•	•			•				•		•				•					•
Applied Microcomputer Systems DOCUMATE Word Processing	•									•		•				•					
Applied Technology Ventures UniWord	•		•			•	•		•	•		•				•	•			•	
ARTSCI Magic Mailer Magic Window II Magic Words		•	•						•	•		•				•	•			•	•
ATON International OmniWriter		•	•			•		•					•			•					
Beaman Porter PowerText									•	•		•			•	•		•	•		•
Berzurk Systems Spell-It							•									•				•	
BOS National AutoWriter	•	•	•			•	•			•		•				•					
Broderbund Software Bank Street Speller Bank Street Writer		•	•										•			•	•			•	
Computer Development Image		•								•		•		•		•					
Computer Marketing Services SCRIPT/SCRATCH		•	•							•	•	•	•			•				•	
Compuview Products VEDIT		•	•				•	•			•	•				•	•				•
Cornucopia Software Electric Webster							•									•				•	
Cromemco WPS Writemaster	•		•				•		•	•						•					•
Datamed Research The Incredible Text Printer		•					•			•				•				•			



Vendor/Package	System Capabilities																				
	Function-Key Driven	Menu/Command Driven	Document Oriented	Page Oriented	On-Screen Tutorial	Background Printing	Edits ASCII Files	Edits Multiple Files	Embedded Print Commands	Enhanced Printing	Horizontal Scrolling	Margin Justification	Print Preview	Proportional Spacing	Snaking Multiple Columns	Search/Replace	Undelete	Keyword Indexing	Calculator Functions	Spelling Checker	Merged Mailing
Datamost Write-On		•							•						•						•
Datatek Datatext	•		•				•		•		•			•	•	•		•			•
Digital Marketing Bibliography Footnote Proofreader Writer's Pack							• • • •									• • • •		• • • •		• • • •	
EEC Systems LEX-11		•	•				•			•	•	•	•		•	•			•	•	•
Einstein GhostSpeller GhostWriter			•					•		•		•				• •				• •	•
Emerging Technology EDIX SPELLIX WORDIX		•	•				•		•	•	•	•			•	• •				• •	•
Hayden Software PIE Writer the Writer	• •	• •		• •			• •			• •	• •	• •				• •					•
HFK Software Qwerty	•		•				•		•	•	•	•	•			•					
Horizon Software Systems Horizon WordProcessing		•	•			•	•			•		•				•				•	•
Human Engineered Software HES Writer				•					•				•			•					
IJG Electric Pencil Electric Pencil PC PRO-Pak	• •	• •	•		•		•	•		•		•				• •	•				
Information Unlimited Software (IUS) EasyWriter I System EasyWriter II System		• •		• •		• •				• •	• •	• •	• •			• •	• •			• •	• •
Intecolor Spectra-Text		•	•				•		•	•		•				•			•	•	•
Intelsoft DynaWriter		•					•			•		•				•					

Vendor/Package	System Capabilities																				
	Function-Key Driven	Menu/Command Driven	Document Oriented	Page Oriented	On-Screen Tutorial	Background Printing	Edits ASCII Files	Edits Multiple Files	Embedded Print Commands	Enhanced Printing	Horizontal Scrolling	Margin Justification	Print Preview	Proportional Spacing	Snaking Multiple Columns	Search/Replace	Delete	Keyword Indexing	Calculator Functions	Spelling Checker	Merged Mailing
International Software Alliance ProScript Text Formatter Super Mail List									•	•		•				•		•			•
ITSoftware EditIT WritIT	• •	• •	• •		•		• •	•		•	•	•				• •			•	•	•
Kensington Microware Format II		•		•			•			•		•				•					•
Leading Edge Products Leading Edge Word Processor			•			•				•		•	•		•	•					
Lexisoft Spellbinder	•		•				•			•		•		•	•	•			•	•	•
Lifeboat Associates MagicPrint			•						•	•		•									
Lifetree Software Volkswriter Volkswriter Deluxe	• •		• •				• •			• •	•			•		• •					•
Marc Software International WordMARC		•	•				•			•		•		•		•				•	•
Mark of the Unicorn Mince The Final Word	•		•				• •	• •		• •		•		•		• •		•			
Megahaus MegaWriter		•					•			•		•				•					•
Metasoft BENCHMARK Mail List BEHNCMARK 3.0		• •	• •				•			•	•	•		•		• •	•		•		•
Micromation Gutenberg Sr		•								•		•				•			•		
MicroPro International WordStar WordStar Professional		• •	• •			• •	• •		• •	• •	• •	• •				• •		•		•	•
Microsoft Microsoft Word		•	•							•		•	•			•	•				
Muse Software Super-Text Home Office Super-Text Professional		• •	• •						• •	• •		•				• •			•		
NBI NBI Word Processor			•			•	•			•		•	•			•					•



Vendor/Package	System Capabilities																				
	Function-Key Driven	Menu/Command Driven	Document Oriented	Page Oriented	On-Screen Tutorial	Background Printing	Edits ASCII Files	Edits Multiple Files	Embedded Print Commands	Enhanced Printing	Horizontal Scrolling	Margin Justification	Print Preview	Proportional Spacing	Snaking Multiple Columns	Search/Replace	Undelete	Keyword Indexing	Calculator Functions	Spelling Checker	Merged Mailing
Nordell Data Systems Easyproof Spelling Checker Easytext							•		•	•		•				•		•		•	
Oasis Systems Word Plus		•														•				•	
Ohio Data Base Alpha-Vue				•			•			•		•				•				•	
Owl Software Textplus	•		•		•	•	•		•	•		•		•		•			•		•
Palantir Software Palantir Word Processor	•	•	•				•			•	•	•	•	•		•			•		•
Peachtree Software PeachText		•	•			•	•	•	•	•		•				•					•
Perfect Software Perfect Writer		•	•				•	•		•		•				•		•			•
Professional Software WordPlus-PC WordPro 2-Plus WordPro 3-Plus WordPro 3-Plus 64 WordPro 4-Plus WordPro 5-Plus	•		•				•		•	•		•	•			•			•	•	
Quark Word Juggler IIe Word Juggler III		•	•			•	•			•	•	•	•			•				•	•
Samna Samna Word II	•				•		•			•		•	•			•					•
Satellite Software International PERSONAL WordPerfect WordPerfect	•		•							•		•				•			•	•	•
Schuchardt Software Systems InteWord		•	•				•		•		•		•			•			•		
Select Information Services Select Write Select: The Word Processor		•	•			•	•			•		•	•			•	•			•	•
Sensible Software Black's Law Dictionary Bookends Sensible Speller							•									•			•	•	

Vendor/Package	System Capabilities																				
	Function-Key Driven	Menu/Command Driven	Document Oriented	Page Oriented	On-Screen Tutorial	Background Printing	Edits ASCII Files	Edits Multiple Files	Embedded Print Commands	Enhanced Printing	Horizontal Scrolling	Margin Justification	Print Preview	Proportional Spacing	Snaking Multiple Columns	Search/Replace	Undelete	Keyword Indexing	Calculator Functions	Spelling Checker	Merged Mailing
Sierra On-Line HomeWord Screenwriter II THE DIC-TIO-NARY		•		•		•	•			•		•	•	•		•	•	•			•
Silicon Valley WORD HANDLER II		•		•					•	•		•				•					
Simutek Computer Products Copy Art II		•								•		•		•		•					
Sofsys Executive Secretary		•				•	•			•		•				•		•	•		
Softest LEX-86 and LEX-68	•	•	•				•			•	•	•	•		•	•			•	•	•
Software Dynamics SEdit Type			•	•			•	•	•	•		•				•		•			•
Software Publishing PFS:Write	•	•	•				•			•		•	•			•					•
The Software Toolworks PIE 1.5c Spell		•														•	•			•	
Softword Systems MultiMate	•	•	•			•	•			•	•	•				•			•	•	
Structured Systems Group NAD Name and Address Word Right			•	•			•			•			•	•		•				•	•
Supersoft CORRECTOR							•									•				•	
Tandy SCRIPSIT SCRIPSIT Spelling Dictionary SuperSCRIPSIT		•	•		•		•			•	•	•		•	•	•	•			•	•
Vector Graphic MEMORITE III			•							•		•				•				•	•
VisiCorp VisiWord Plus	•		•		•		•	•		•		•	•			•	•			•	
Western Software Development SPELLPACK							•									•				•	
WICAT Systems Word Processor			•				•			•		•	•			•				•	
Zenith Data Systems Magic Spell							•									•				•	



WORD PROCESSING/TEXT EDITING

Company Directory

218.0032.001

Vendor	Address/Telephone	Model
Artsci	5547 Satsuma Ave North Hollywood CA 91601 (213) 985-2922	Magic Window II Magic Window IIC
Astro-Star Enterprises	5905 Stone Hill Dr Rocklin CA 95677 (916) 624-3709	Letter-Writer
Beaman Porter Inc	417 Halstead Ave Harrison NY 10528 (914) 967-3504	PowerPen PowerText
Bruce & James Inc	2355 Leavenworth St Suite 103 San Francisco CA 94133 (415) 775-8400	Wordvision®
Complete Computer Systems	1800 Byberry Rd Suite 709 Huntington Valley PA 19006 (215) 938-0190	CREATE®
Computer Association Micro Product Div Associates (formerly SORCIM/IUS)	2195 Fortune Dr San Jose CA (408) 942-1727	EasyWriter I EasyWriter II SuperWriter
Concept Omega Corp	PO Box 1035 Somerville NJ 08876 (201) 722-7790	Word Concept
Data Processing Design Inc	1400 N Brasher St Anaheim CA 92807 (714) 970-1515	Word 11
Economic Insights	414 Hungerford Dr Suite 216 Rockville MD 20850 (301) 294-2660	Techni-Word World Writer
Emerging Technology Consultants Inc	1877 Broadway Boulder CO 80302 (303) 447-9495	The Professional Writer's Package
Innovative Software Inc	9300 W 110 St Overland Park KS 66210 (913) 383-1089	Smart Word Processor
IT Software (Div of Martin Marietta)	PO Box 2392 Princeton NJ 08540 (609) 799-7500	WRITIT
JET Software	17632 Irvine Blvd Tustin CA 92680 (714) 549-5750	The WORKS
Leading Edge Products Inc	225 Turnpike St Canton MA 02021 (617) 828-8150	Leading Edge Word Processing
Lexisoft	PO Box 1950 Davis CA 95617 (916) 758-3630	Spellbinder Spellbinder Scientific
Lifetree Software Inc	411 Pacific St Monterey CA 93940 (408) 373-4718	Volkswriter Deluxe

Vendor	Address/Telephone	Model
MARC Software International Inc	260 Sheridan Ave Palo Alto CA 94306 (415) 326-7511	WordMARC
Mark of the Unicorn	222 Third St Cambridge MA 02142 (617) 576-2760	The Final Word
Metasoft Corp	6509 W Frye Road Suite 12 Chandler AR 85224 (602) 961-0003 (800) 621-1908	Benchmark Word Processor
MicroArt Corp	200 Market Building Suite 961 Portland OR 97201 (503) 228-1148	IMAGE Word/Graphics
MicroPro International Corp	33 San Pablo Ave San Rafael CA 94903 (415) 499-1200	WordStar 2000 Plus WordStar Easy 1.0 WordStar Professional 3.3
Microsoft Corp	10700 Northrup Way Bellevue WA 98009 (206) 828-8080	Microsoft Word 1.05 Microsoft Word 2.0
MultiMate International Corp	52 Oakland Ave N East Hartford CT 06108 (203) 522-2116	Advantage Word Professional Executive Word Processor Just Write 3.3 LAN Version 3.3 Multimate Professional
Office Solutions	2802 Coho St Madison WI 53713 (608) 274-5047	Office Writer 3.5
Paladin Software Corp	2895 Zanker Rd San Jose CA 95134 (408) 946-9000	VISIWORD PLUS
Palintir Software	1277 Jones Rd Suite 100 Houston TX 77070 (713) 955-8880	The Word Processor
Peachtree Software Inc	3445 Peachtree Rd NE Atlanta GA 30326 (404) 239-3000	PeachText PeachText 5000
QAX International Corp	4173 Cavehill Rd Spring Hill FL 33526 (904) 596-2090	3*16 Word Processor
R Systems	11450 Pagemill Rd Dallas TX 75243 (214) 343-9188	R Office R Word
SAMNA Corp	2700 Northeast Expwy Atlanta GA 30345 (404) 321-5006	SAMNA WORD III (3.0) SAMNA + (3.1)
Satellite Software International	288 West Center Orem UT 84057 (801) 224-4000	SSI *Wordperfect

Vendor	Address/Telephone	Model
Schuchardt Software Systems Corp	515 Northgate Dr San Rafael CA 94903 (415) 492-9330	InteWord®
Sof/Sys Inc	4306 Upton Ave Minneapolis MN 55410 (612) 929-7104	Executive Secretary
SofTest Inc	555 Goffle Rd Ridgewood NJ 07450 (201) 447-3901	Lex Word Processing System
Software Dynamics	2111 W Crescent Suite G Anaheim CA 92801 (714) 635-4760	Type
Software Publishing	1901 Landings Dr Mountain View CA 94043 (415) 962-8910	PFS: Write
Syntactics Corp	3333 Bowers Ave Suite 145 Santa Clara CA 95054	CrystalWriter CrystalWriter Plus
The Professor	959 NW 53rd St Ft Lauderdale FL 33309 (305) 771-6498	Multi-Lingual Word Processor
TOM Software	127 SW 156th St Seattle WA 98166 (206) 246-7022	D.A.T.A. 3500
University Software Associates	RD 1 PO Box 6 Fitchville CT 06334 (203) 889-5641	MasterWord Processor
Roger Wagner Publishing	10761 Woodside Ave Suite E Santee CA 92071 (619) 562-3670	Mousewrite
Xyquest Inc	PO Box 372 Bedford MA 01730 (617) 275-4439	XyWrite II Plus

WORD PROCESSING/TEXT EDITING

Product Summaries

ALPHABIT COMMUNICATIONS

13349 Michigan Ave
Dearborn MI 48126

(313) 581-2896

► Lazy Writer

A WP program

Price \$175 purchase

Environment Computers: Tandy TRS-80 Models I, III, and IV; microcomputers running under TRS-DOS or LDOS. Main storage: 48K bytes. Source language: Assembler.

Capabilities Document-oriented, memory-based full-screen editing. Document chaining for printing large documents. Single-key editing. Global search and replace backward and forward. Uses any printer. Optional proportional spacing. Optional custom font program for use with bit-plot printers. Formatted printing using print menu or print commands embedded in text.

Description Lazy Writer is a full-featured WP program for Tandy microcomputers that allows users to edit documents up to 14 pages long. Lazy Writer supports two modes for creating and editing text. The text entry mode allows users to key in large blocks of text. Users can then switch to the editing mode and use single-key commands to search and replace, insert, or overtype letters and phrases.

Extension programs available for Lazy Writer include Lazy Doc (\$60 purchase), which prompts users for insertions needed for boilerplate text, and LAZYMERGE (\$175 purchase), which supports merged-mail form letters.

Compatibility Matrix: 218.0025.001
Features Matrix: 218.0030.001

ALPHABIT COMMUNICATIONS

13349 Michigan Ave
Dearborn MI 48126

(313) 581-2896

► LAZYMERGE

A merged-mailing package

Price \$175 purchase

Environment Computers: Tandy Radio Shack TRS-80 Models I, III, and IV. Main storage: not specified. Source language: Z80 Assembler.

Capabilities Selective printing. Word substitution. Upper- and lowercase merging. Underline. Boldface.

Description Used with the AlphaBit Communications Lazy Writer word processing package, LAZYMERGE

merges names and other data from a mail list with a text file. Users type documents with Lazy Writer and indicate with printer commands where mail list data should be inserted in text. The package inserts such data as address information and the name after the salutation.

LAZYMERGE can print selectively. For example, it can print letters only to people who live in California by selecting California zip codes and matching data in the mail list with user-selected commands.

Users can substitute language if particular fields are missing. If a user wants the person's name printed after the salutation but the record contains only a company name, the package can substitute such wording as "Dear Customer."

The current version of LAZYMERGE works only with a mail list kept as a Lazy Writer file or with a list kept in POSTMAN—a mail list program also available from AlphaBit Communications.

Compatibility Matrix: 218.0025.001
Features Matrix: 218.0030.001

APPLE COMPUTER INC

20525 Mariani Ave
Cupertino CA 95014

(408) 996-1010

► Apple Writer II

A WP package

Price \$195 permanent license

Environment Computers: Apple IIe. Main storage: 64K bytes. Source language: Assembler.

Capabilities Text editing with mnemonic control key commands. Displays either 40 or 80 characters of text. Supports additional 80-character adapter card. Search and replace. Help key. Full-screen editing using cursor control keys. Underlining.

Description Apple Writer II, redesigned for the Apple IIe, accommodates the modified keyboard and text display capabilities of the Apple IIe. Included with Apple Writer II is a series of programs written in the Word Processing Language (WPL). These programs support print spooling, form letters, and special-character printing. Users can write programs in WPL for merging mailing lists with forms letters.

Compatibility Matrix: 218.0025.001
Features Matrix: 218.0030.001

APPLIED MICROCOMPUTER SYSTEMS

Box 150

Silver Lake NH 03875

(603) 367-8004

► DOCUMENTE Word Processing

A word processing system that creates, edits, prints, and stores documents

Price \$395 purchase

Environment Computers: Hewlett-Packard HP 85 and HP 83. Main storage: 32K bytes. Source language: Assembly, BASIC.

Capabilities Full-screen text editing, including instant updating for all corrections, insertions, and deletions. Full control of the printed document format.

Description DOCUMENTE Word Processing is designed especially for the Hewlett-Packard HP 85 or HP 83 and is available in disk and tape versions. Documents can be printed on any external printer plus the HP 85 internal printer. Other features include automatic search and replace, fully labeled editing keys, and an extensive set of format control commands.

Compatibility Matrix: 218.0025.001

Features Matrix: 218.0030.001

APPLIED TECHNOLOGY VENTURES

610 National City

E 6th Bldg

Cleveland OH 44114

(216) 589-0525

► UniWord

A WP package

Price \$495 purchase (for microcomputers based on the Motorola MC 68000)

Environment Computers: any running under Unix (Version 7, System III, or Berkeley) or Xenix. Main storage: depends on computer. Source language: C.

Capabilities Single- or multiuser operation. Abbreviations. Automatic centering, hyphenation, indent, and pagination. Copies, deletes, and moves blocks. Transfers text between documents. Deletes by character, word, line, or sentence. Go to column, line, start of text, or end of text. Mail merge. Global and selective search and replace. Smooth scrolling. Sort by line. Spelling checker. Status key. Tab by word, sentence, and paragraph. Undo key for all commands. Word wraparound. Headers and footers. Margin control. Super- and subscripts. Underline. Typewriter function (keyboard to printer). Print spooling.

Description UniWord uses menus, English prompts, and labeled function keys rather than control key combinations or multiple keystrokes. The package processes ASCII files produced by other software packages and can be integrated with data base and spreadsheet programs. UniWord is terminal independent and can be interfaced to most WP printers. Print features include au-

tomatic page numbering, boldface printing, centering, continuous or single-sheet paper feed, and print to spooler. Users can set the range of pages to print, margins, pitch, lines per inch, and characters per line. Utilities include document assembly, copy, delete, index, rename, and a link to other Unix utilities, such as nroff.

Compatibility Matrix: 218.0025.001

Features Matrix: 218.0030.001

ARTSCI

5547 Satsuma Ave

North Hollywood CA 91601

(213) 985-2922

► Magic Mailer

A merged-mailing manager

Price \$70 purchase

Environment Computers: Apple II, II+, and IIe. Main storage: 48K bytes. Source language: Assembler.

Capabilities Merges names and addresses with form letters and documents. Automatic right margin justification or centering.

Description Magic Mailer takes names and addresses from a data base maintained by ARTSCI Magic Memory and merges them with form letters or documents created by the ARTSCI Magic Window II WP package or any other WP program running under Apple DOS. Magic Mailer also merges names and addresses entered directly from the keyboard.

Compatibility Matrix: 218.0025.001

Features Matrix: 218.0030.001

ARTSCI

5547 Satsuma Ave

North Hollywood CA 91601

(213) 985-2922

► Magic Window II

A word processing system

Price \$150 purchase

Environment. Computers: Apple II, II+, and IIe. Main storage: 48K bytes. Source language: BASIC.

Capabilities Document-oriented system with 160-character string for global search and replace. Color card and windows for operator guide. Features ASCII character set, stored print formats, word wraparound, and centering. Optional spelling dictionary and merged-mailing manager.

Description Magic Window II is a menu-driven word processing system that runs under Apple DOS. Magic Window II features a variety of visual display and editing capabilities. The program can be used with various 80-character adapter cards, or it can display lines of 40 characters (Apple II, II+) or 70 characters (Apple IIe).

Compatibility Matrix: 218.0025.001

Features Matrix: 218.0030.001

ARTSCI5547 Satsuma Ave
North Hollywood CA 91601

(213) 985-2922

► Magic Words

A spelling checker

Price \$70 purchase**Environment** Computers: Apple II, II+, and IIE.
Main storage: 48K bytes. Source language: Assembler.**Capabilities** Contains a spelling dictionary of more than 14,000 words. Automatically corrects errors or flags them for manual correction. Adds words to user dictionaries.**Description** Magic Words proofreads documents created by ARTSCI Magic Window II WP program. The program either flags mistakes directly in the document or prints an error list with page and line numbers. Corrected documents are automatically transferred to disk storage.**Compatibility Matrix:** 218.0025.001
Features Matrix: 218.0030.001

ATON INTERNATIONAL1765 Scott Blvd
Suite 119
Santa Clara CA 95050

(408) 554-9922

► OmniWriter

A text editing program for microcomputers

Price \$99 purchase**Environment** Computers: Tandy TRS-80 Models II, 12, and 16 running under ATON-modified CP/M. Main storage: not specified. Source language: not specified.**Capabilities** Full-screen text editing, with up to 23 lines of text displayed simultaneously. Scrolling forward and backward within text file by using cursor keys. Global search and replace. Changes in text and format displayed on the screen.**Description** The OmniWriter text editing program simultaneously edits two text files, allowing blocks of text to be transferred between the files. Strings of commands can be stored for subsequent execution. OmniWriter supports simultaneous printing and editing of files.**Compatibility Matrix:** 218.0025.001
Features Matrix: 218.0030.001

BEAMAN PORTERPleasant Ridge Rd
Harrison NY 10528

(914) 967-3504

► PowerText

A text-formatting package

Price \$399 purchase**Environment** Computers: IBM Personal Computer. Main storage: not specified. Source language: not specified.**Capabilities** Moves and copies text within and between files. Global search and replace in either direction. Math functions. Underline and boldface. Outline numbering. Footnotes. Paragraph organization. Side-by-side text columns. Form letter merge.**Description** PowerText is designed for users who work with complicated formats. Users can store basic text formats in format files and access the format required for each document. Format files include headers, footers, and the date.**Compatibility Matrix:** 218.0025.001
Features Matrix: 218.0030.001

BERZURK SYSTEMS1434 Parker St
Berkeley CA 94702**► Spell-It**

A spelling checker

Price \$30 purchase**Environment** Computers: IBM Personal Computer and Personal Computer XT; systems running under MS-DOS or CP/M. Main storage: depends on computer. Source language: not specified.**Capabilities** Includes 41,000-word dictionary, directory of proper personal and geographic names, and dictionary of contractions. Supports up to 10 user-defined dictionaries.**Description** Spell-It checks documents created by most WP programs for spelling errors. The program automatically corrects errors or allows users to manually correct them by using the built-in text editor.**Compatibility Matrix:** 218.0025.001
Features Matrix: 218.0030.001

BOS NATIONAL INC

2560 Royal Ln
Dallas TX 75229

(214) 484-2717

► AutoWriter

A WP program

Price Purchase: \$550 (single user), \$900 (multiuser)

Environment Computers: various microcomputers running under BOS/5 or MBOS/5, including IBM Personal Computer and Personal Computer XT, Victor 9000, Texas Instruments Professional Computer, and Sage and Pertec systems. Main storage: depends on system. Source language: not specified.

Capabilities Inserts, replaces, and deletes text. Scrolls forward and backward. Pagination. Margin justification. Word wraparound. Hyphenation. Decimal tabulation. Indexes and stores documents. Prints and edits simultaneously. Makes use of function keys.

Description AutoWriter is a menu-driven word processing system. It produces mailshots and standard letters and provides archive copies of documents to guard against loss or damage. Documents can be selected for printing from a menu. The program can start and stop the printer from the keyboard even while another document is being typed. AutoWriter can be integrated with other business applications to form a complete office system under the BOS/5 or MBOS/5 operating system.

Compatibility Matrix: 218.0025.001

Features Matrix: 218.0030.001

BRODERBUND SOFTWARE

17 Paul Dr
San Rafael CA 94903

(415) 479-1170

► Bank Street Speller

A spelling checker for the Bank Street Writer

Price \$70 purchase

Environment Computers: Apple II, II+, and IIe. Main storage: 48K bytes. Source language: not specified.

Capabilities Includes 30,000-word dictionary. Supports user dictionary. Proofreads documents created under Bank Street Writer. Prints alphabetized word lists, the number of words in a document, and the number of words used only once in a document.

Description Bank Street Speller, developed by Sensible Software and marketed by Broderbund Software, scans documents created by the Bank Street Writer for spelling errors. The program highlights misspelled words and suggests corrections. Bank Street Speller can also correct words automatically on an instance-by-instance basis or by using the global search and replace facility.

The menus and prompts displayed by the Bank Street

Speller are the same as those used by the Bank Street Writer.

Compatibility Matrix: 218.0025.001

Features Matrix: 218.0030.001

BRODERBUND SOFTWARE

17 Paul Dr
San Rafael CA 94903

(415) 479-1170

► Bank Street Writer

A WP program for home use

Price Purchase: \$69 (Apple, Commodore), \$79 (IBM)

Environment Computers: Apple II, II+, and IIe; Commodore 64; Atari 600, 800, and XL series; IBM Personal Computer and PCjr. Main storage: 48K bytes. Source language: not specified.

Capabilities Word wraparound. Scrolls text up eight lines when the bottom line is reached. Cancels erase. Moves back to previous menu. Changes print line length between 40 and 80 characters. Prints double or triple space. Password for accessing disks. Search and replace. Headers. Clear option.

Description Bank Street Writer is an easy-to-learn package designed for inexperienced users. The package includes write, edit, and transfer modes. A text window of 18 lines by 38 characters is displayed during the write mode. Upper- and lowercase characters are displayed. The write menu, displaying available options, appears above this window at the top of the screen. Edit mode erases and moves text. The text window remains the same as in write mode, but the menu changes. Transfer mode controls communications between the disk drive and printer. Users can save files on disk, retrieve them from disk, delete and rename files, and initialize new disks. Printing options include draft and final copies. Draft mode prints text as it appears in the 38-column single-spaced text window. Final mode formats the text to individual specifications.

Compatibility Matrix: 218.0025.001

Features Matrix: 218.0030.001



COMPUTER DEVELOPMENT6700 SW 105th St
Beaverton OR 97005

(503) 646-1599

► Image

A word/graphics processing system

Price \$295 purchase**Environment** Computers: Zenith Z89 and Z90. Main storage: 48K bytes. Source language: not specified.**Capabilities** Includes true proportional printing. Mixes graphics and text. Super- and subscripts. Page numbering in headers and/or footers, with alternating left/right justification. Creates and prints text files. Moves paragraphs vertically. Moves columns in four directions.**Description** Image is a word/graphics processing system allowing the user to draw automatically with solid "fill" characters to create bar charts, diagrams, and block lettering. The program can mix graphics and text. The system is menu driven, and a table of all commands can be displayed for immediate review at any time.**Compatibility Matrix:** 218.0025.001
Features Matrix: 218.0030.001

COMPUTER MARKETING SERVICES26 Springdale Rd
Cherry Hill NJ 08003(800) 222-0585
(609) 795-9480**► SCRIPT/SCRATCH**

A WP program

Price \$100 purchase**Environment** Computers: Commodore 64. Main storage: 64K bytes. Source language: not specified.**Capabilities** File-oriented document editing. Block delete and move. Headers and footers. Assignable keyboard. Automatic page numbering. Horizontal scrolling.**Description** SCRIPT/SCRATCH is a full-function WP system with a built-in 20,000-word dictionary. In addition to standard text editing functions, SCRIPT/SCRATCH features redefinable keys, video previewing of formatted text, and extensive Help screens.

SCRIPT/SCRATCH edits up to 40 pages at one time, and documents can be linked to form an integrated document of up to 999 pages.

A scratchpad function allows users to type temporary, unrelated memos during text editing sessions.

Compatibility Matrix: 218.0025.001
Features Matrix: 218.0030.001

COMPUVIEW PRODUCTS INC1955 Pauline Blvd
Suite 200
Ann Arbor MI 48103

(313) 996-1299

► VEDIT

A full-screen text editor

Price \$150-\$195 purchase**Environment** Computers: IBM Personal Computer and Personal Computer XT; any based on the Zilog Z80 or Intel 8080 microprocessor and running under CP/M-86 or MS-DOS. Main storage: 16K bytes. Source language: Assembler.**Capabilities** Full-screen editing. Horizontal scrolling. Virtual memory management allows editing of documents larger than computer memory. Adjustable tab positions. Block move and copy. Global and conditional search and replace. Undo command. Recovers from disk errors. Customizable keyboard layout.**Description** VEDIT is a versatile full-screen editor with a command structure similar to that used by Digital Equipment TECO, the mainframe text editing language. VEDIT enables users to create command macrofiles for performing complicated search and replace operations, merging mailing lists with prepared letters, and formatting documents. VEDIT can handle several files simultaneously and includes special features for editing Pascal, PL/1, C, and Assembler programs. A demonstration search-and-replace macrofile supplied with VEDIT translates Zilog Z80 instruction code to Intel 8080 instruction code and vice versa.**Compatibility Matrix:** 218.0025.001
Features Matrix: 218.0030.001

CORNUCOPIA SOFTWAREPO Box 6111
Albany CA 94706

(415) 524-8098

► Electric Webster

A spelling checker

Price \$90 purchase**Environment** Computers: Tandy TRS-80, computers under CDOS or CP/M. Main storage: 48K bytes. Source language: not specified.**Capabilities** Displays vertical word list or words in context. Corrects errors in text. Immediate access to 50,000-word dictionary allows spelling check. Scrolls at fast or slow pace. Automatic end-of-line hyphen removal.**Description** Electric Webster proofreads documents for spelling and typographical errors by comparing the text to words contained in a 50,000-word literal word list that includes suffixes and prefixes. The system only passes words in its original list or in a supplementary list built up by the user. Electric Webster is designed to integrate with most popular WP programs.**Compatibility Matrix:** 218.0025.001
Features Matrix: 218.0030.001

CROMEMCO INC

PO Box 7400
Mountain View CA 94039

(415) 964-7400

► **WPS**

A text editing and formatting system

Price \$295 purchase

Environment Computers: Cromemco microcomputers under CDOS or Cromix. Main storage: 64K bytes. Source language: Assembly.

Capabilities Features unlimited character-string length, unlimited block move/copy, paginate/repaginate, and a full ASCII character set. Optional spelling dictionary with 15,000 user-defined words or a maximum of 100,000 words, password protection, and multiterminal support.

Description WPS is a document-oriented word processing system consisting of a full-screen text editor and a print formatting utility.

Compatibility Matrix: 218.0025.001
Features Matrix: 218.0030.001

CROMEMCO INC

PO Box 7400
Mountain View CA 94039

(415) 964-7400

► **Writemaster**

A document processing system

Price \$595 purchase

Environment Computers: Cromemco microcomputers under CDOS or Cromix. Main storage: 64K bytes. Source language: Assembly.

Capabilities Features unlimited character-string length, unlimited block move/copy, paginate/repaginate, and a full ASCII character set. Optional spelling dictionary with 15,000 user-defined words or a maximum of 100,000 words, password protection, and multiterminal support.

Description Writemaster is a document-oriented word processing system with function-key-driven commands. Similar in function to the Cromemco WPS system, Writemaster can edit or print all or part of an ASCII file. An optional merged-mailing program is available for use with Writemaster.

Compatibility Matrix: 218.0025.001
Features Matrix: 218.0030.001

DATAMED RESEARCH INC

1433 Roscomore Rd
Los Angeles CA 90077

(213) 472-8825

► **The Incredible Text Printer**

A text processing system

Price \$249 purchase

Environment Computers: any 16-bit computer[†] under the UCSD p-System. Main storage: 60K bytes. Source language: Pascal.

Capabilities Features a 254-character ASCII set, paginate/repaginate, word wraparound, underlining, centering, boldface, proportional spacing, index generation, formula printing, and foreign languages. Multiterminal support is host dependent.

Description The Incredible Text Printer is a menu-driven text processing system designed for UCSD p-System-based computer systems. It is available on 5-1/4-inch or 8-inch diskette and requires a minimum 200K bytes of diskette storage.

Compatibility Matrix: 218.0025.001
Features Matrix: 218.0030.001

DATAMOST

20660 Nordhoff St
Chatsworth CA 91311

(213) 709-1202

► **Write-On**

A WP package for form letter merging

Price \$129 purchase

Environment Computers: IBM Personal Computer. Main storage: not specified. Source language: not specified.

Capabilities Move and copy. Search and replace. Headers. Centering. Paragraph assembly. Page numbering. Supports cursor movement. Inserts and deletes.

Description Write-On includes a flexible letter-merging function. Users can enter form letter variables either from data files or by typing them directly from the keyboard. Then, they can edit the letters and store them as separate files.

Compatibility Matrix: 218.0025.002
Features Matrix: 218.0030.002



DATATEK

280 Railroad Ave
Greenwich CT 06830

(203) 625-0098

► Datatext

A WP package

Price Purchase: \$450, \$99 (IBM PCjr), \$175 (text editing subsystem)

Environment Computers: IBM Personal Computer, PCjr, and Personal Computer XT; Digital Equipment Rainbow 100, Professional 300, and DECmate II; NEC Advanced Personal Computer; NCR Decisionmate; systems running under CP/M, CP/M-86, MP/M-86, PC DOS, or MS-DOS. Main storage: depends on computer. Source language: C, Pascal.

Capabilities Function-key-driven editing of ASCII files. Block move and copy. Forward and backward global search and replace. Merges form letters with files generated by Ashton-Tate dBASE II. Generates alphabetized keyword index. Proportional spacing with full justification. Headers and footers. Centering. Boldfaced and underlined printing.

Description Datatext is preconfigured for each supported microcomputer and requires no installation procedures. The program supports running double columns; both columns are fully justified and proportionally spaced. A special Bind command extends the left and right margins on an odd/even page basis for use in bound documents.

The text editing subsystem included with Datatext is available separately.

Compatibility Matrix: 218.0025.002
Features Matrix: 218.0030.002

DIGITAL MARKETING

2363 Boulevard Circle
Walnut Creek CA 94595

(415) 947-1000
(800) 826-2222

► Bibliography

A utility that compiles bibliographies by comparing text to catalog references

Price \$125 purchase

Environment Computers: IBM Personal Computer running under PC DOS, any system running under CP/M or CP/M-86. Main storage: 48K bytes. Source language: not specified.

Capabilities Interfaces with most word processors, including MicroPro WordStar, Peachtree PeachText, Lexisoft SpellBinder, and Sorcim SuperWriter. Entries added to catalog by word processor. References maintained by keyname and can be any length or format.

Description Bibliography automatically compiles a user bibliography by comparing citations in word processor text files with a list of references (e.g., author and year of publication) organized by keyname. The re-

sulting bibliography can be listed alphabetically or by order of reference.

Bibliography can also copy entries from the catalog to footnotes in the manuscript or replace citations in the manuscript with numbers corresponding to the order in which the references appear in the bibliography.

Compatibility Matrix: 218.0025.002
Features Matrix: 218.0030.002

DIGITAL MARKETING

2363 Boulevard Circle
Walnut Creek CA 94595

(415) 947-1000
(800) 826-2222

► Footnote

A footnoting program used for WP

Price \$125

Environment Computers: IBM Personal Computer running under PC DOS, any system running under CP/M, CP/M-86, or MS-DOS. Main storage: 48K bytes. Source language: Assembly.

Capabilities Automatically numbers and formats footnote references, footnotes, and text. Works with documents created by MicroPro WordStar or Select Information Services Select: The Word Processor.

Description Footnote automatically searches through manuscript text to insert footnote references and footnotes in the text. Footnotes can be placed at the bottom of the correct page or in a separate note file.

Text can be redited after being formatted by Footnote. References to footnotes can be deleted or added and then renumbered and reformatted by Footnote.

The Footnote package includes PAIR, a companion program that checks whether underline and boldface printer commands imbedded in the text are terminated.

Compatibility Matrix: 218.0025.002
Features Matrix: 218.0030.002

DIGITAL MARKETING

2363 Boulevard Circle
Walnut Creek CA 94595

(415) 947-1000
(800) 826-2222

► Random House Proofreader

A spelling checker system

Price \$50 purchase

Environment Computers: any running under CP/M, PC DOS, or MS-DOS. Main storage: 48K bytes. Source language: not specified.

Capabilities Uses a 50,000-word dictionary to verify spelling in text files created by most word processors. Allows users to add words to dictionary.

Description Random House Proofreader is a simple, screen-prompting spelling system that identifies unknown words. Automatic or manual corrections are made at the user's discretion.

Compatibility Matrix: 218.0025.002
Features Matrix: 218.0030.002

DIGITAL MARKETING CORP

2363 Boulevard Circle
Walnut Creek CA 94595

(415) 947-1000
(800) 826-2222

► Writer's Pack

A utility package for WordStar users

Price \$295 purchase

Environment Computers: any using WordStar under CP/M, MS-DOS, or PC DOS. Main storage: varies. Source language: not specified.

Capabilities Proofreads for spelling, grammar, punctuation, and capitalization. Footnotes. Bibliographies. Indexes. Table of contents with up to 16 levels of subheads.

Description Writer's Pack operates with WordStar and includes five modules:

- The Random House Proofreader—Uses the Random House Dictionary to check for misspelled words, including proper names and geographic locations
- Grammatik—Detects 18 categories of common errors, such as redundant words, awkward phrases, improper capitalization, and punctuation
- Footnote and Pair—Numbers and formats footnotes
- Bibliography—Creates alphabetized or numbered bibliographies
- DocuMate/Plus—Creates a table of contents and index.

Compatibility Matrix: 218.0025.002
Features Matrix: 218.0030.002

EEC SYSTEMS INC

327/E Boston Post Rd
Sudbury MA 01776

(617) 443-5106

► LEX-11

A WP and office automation package

Price \$550-\$7,000 purchase

Environment Computers: Digital Equipment Professional Computer running under P/OS, Rainbow 100 running under CP/M; IBM Personal Computer and any other computer running under MS-DOS, Unix, or CP/M; Digital Equipment mainframes and minicomputers. Main storage: 32K bytes. Source language: D.

Capabilities Menu driven with single-keystroke commands. Full-screen editing with text displayed as it will be printed. Multicolumn text entry and editing. Global search and replace. Word wraparound. Hyphenation. Pagination. Centering. Underlining. Boldfaced printing. Super- and subscripts. Headers and footers.

Description LEX-11 is an integrated WP program with several office automation and data management facilities, including list processing, forms generator, built-in calculator, and simple business graphics. An optional spelling checker is available.

LEX-11 works the same on any of the systems supported, regardless of system size or type of operating system. Files can be transferred between systems and then used without modification.

Compatibility Matrix: 218.0025.002
Features Matrix: 218.0030.002

EINSTEIN

11340 W Olympic Blvd
Los Angeles CA 90064

(213) 477-4539

► GhostSpeller

A spelling checker for Einstein WP programs

Price \$150 purchase

Environment Computers: IBM Personal Computer. Main storage: not specified. Source language: not specified.

Capabilities Main dictionary with 40,000 common words. Allows user to add words and proper names. Highlights suspected misspellings and suggests alternatives.

Description GhostSpeller scans text created by using the GhostWriter WP program, correcting errors automatically or marking them for manual correction. The dictionary lists the more common words first, reducing response time significantly. Improperly hyphenated or capitalized words, along with common typographical errors, are flagged.

Compatibility Matrix: 218.0025.002
Features Matrix: 218.0030.002



EINSTEIN

11340 W Olympic Blvd
Los Angeles CA 90064

(213) 477-4539

► GhostWriter

A WP package

Price \$395 purchase

Environment Computers: IBM Personal Computer. Main storage: not specified. Source language: not specified.

Capabilities Screen-oriented text editing. Search and replace. Inserts, copies, moves, and deletes text. Appends and modifies boilerplate files. Interfaces to spelling checker and merge-mailing modules.

Description GhostWriter uses a split-screen feature that allows users to view previously written and stored text simultaneously with new text. GhostLetters, a collection of model letters covering a range of business and social correspondence, is available separately for use with GhostWriter. Each letter contains an on-screen content outline to aid in its adaptation to a personalized message. A small thesaurus is also included with the GhostLetter option to provide synonyms for key words.

Compatibility Matrix: 218.0025.002

Features Matrix: 218.0030.002

EMERGING TECHNOLOGY CONSULTANTS

2031 Broadway
Boulder CO 80302

(303) 447-9495

► EDIX

A text editor

Price \$195 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, compatible systems; Texas Instruments Professional Computer; Victor 9000. Main storage: 128K bytes. Source language: Pascal.

Capabilities Insert. Typeover. Word wraparound. Automatic reformat. Side-to-side scrolling. User-defined tabbing. Line splitting and joining. Cursor movement by words. Block move, copy, delete.

Description EDIX is a full-screen text editor for initial text entry and subsequent modification. It performs basic formatting and printing functions only. EDIX commands are performed by the vendor's WORDIX text formatter.

Compatibility Matrix: 218.0025.002

Features Matrix: 218.0030.002

EMERGING TECHNOLOGY CONSULTANTS

2031 Broadway
Boulder CO 80302

(303) 447-9495

► SPELLIX

A spelling checker

Price \$95 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, compatible systems; Texas Instruments Professional Computer; Victor 9000. Main storage: 128K bytes. Source language: Pascal.

Capabilities Includes 45,000 words. Displays lines in 9-line screen window. Users can edit anywhere in the window. Highlights misspelled words.

Description SPELLIX checks spelling against a 45,000-word dictionary. When the system highlights a misspelled word, users can ignore the word, correct it, add it to the permanent dictionary, or add it to a temporary dictionary for current execution. SPELLIX suggests alternative spelling corrections.

Compatibility Matrix: 218.0025.002

Features Matrix: 218.0030.002

EMERGING TECHNOLOGY CONSULTANTS

2031 Broadway
Boulder CO 80302

(303) 447-9495

► WORDIX

A text formatter

Price \$195 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, compatible systems; Texas Instruments Professional Computer; Victor 9000. Main storage: 128K bytes. Source language: Pascal.

Capabilities Margin justification. Headers and footers. Underline. Boldface. Super- and subscripts. Page numbering. Multicolumn layout. Footnotes. Hyphenation. Macro definition. Mailing list processing.

Description WORDIX, which processes text files produced by EDIX (the vendor's text editor), performs embedded commands to form text into lines, paragraphs, pages, and sections. The system adds headers, footers, and footnotes. WORDIX can display the formatted document, print it, or write the document to disk.

Compatibility Matrix: 218.0025.002

Features Matrix: 218.0030.002

HAYDEN SOFTWARE600 Suffolk
Lowell MA 01853

(617) 937-0200

► PIE Writer

A WP system

Price Purchase: \$150 (Apple and compatible systems); \$200 (IBM)**Environment** Computers: Apple II, II+, and IIe; Franklin ACE; IBM Personal Computer. Main storage: depends on computers. Source language: Assembler.**Capabilities** Full-screen editing. Horizontal scrolling to edit text wider than screen display. Supports 254-character ASCII set. Edits files created by other programs. Block move. Character insert and strikeover. Global search and replace using a search string of up to 58 characters. Paginate and repaginate. Stored print formats. Incremental spacing. Merged-mailing and communications modules.**Description** PIE Writer is a menu-driven WP program. The Apple version is memory based but allows users to chain files to print them or perform search-and-replace functions. The program supports additional RAM or optional 80-character adapter cards for Apple systems.

The IBM Personal Computer version of PIE Writer is disk based, allowing users to edit files larger than the internal memory of their computers. The program allows split-screen editing and uses the special-function keys of the IBM Personal Computer.

Compatibility Matrix: 218.0025.002
Features Matrix: 218.0030.002

HAYDEN SOFTWARE600 Suffolk
Lowell MA 01853

(617) 937-0200

► the Writer

A text editor

Price \$50 purchase**Environment** Computers: Apple II, II+, and IIe; IBM Personal Computer and PCjr. Main storage: depends on computer. Source language: Assembler.**Capabilities** Full-screen editing. Horizontal scrolling. Block move. Character insert and strikeover. Search and replace. Displays color text (IBM version). Help screens.**Description** the Writer includes the basic text editor of the Hayden PIE Writer WP program. Although it supports most PIE Writer editing features, the Writer does not include merged-mailing or communications modules.**Compatibility Matrix:** 218.0025.002
Features Matrix: 218.0030.002

HFK SOFTWAREOld Danbury Rd
PO Box 150
Danbury NH 03230

(617) 259-0059

► Qwerty

A WP package

Price Purchase: \$325; \$99 (Qwerty jr)**Environment** Computers: IBM Personal Computer, Personal Computer XT, and PCjr. Main storage: 128K bytes. Source language: Assembler.**Capabilities** Forward and backward search and replace. Edits any ASCII file. Paragraph assembly. Multiple formats. Headers and footers. Centering. Underline. Boldface. Super- and subscript. Double underline. Strikethrough. Hyphenation. Right margin justification. Widow and orphan control. Page numbering.**Description** In addition to basic WP functions, Qwerty offers users the ability to switch between insert and strikeover modes. Print format specifications are displayed on the screen and are easy to control. Qwerty's ruler-driven text formatting with dynamic tabbing allows user to easily readjust text to new margins or tab stops.

HFK Software offers Personal Qwerty and Qwerty jr for home use.

Compatibility Matrix: 218.0025.002
Features Matrix: 218.0030.002

HORIZON SOFTWARE SYSTEMS185 Berry St
San Francisco CA 94107

(415) 543-1199

► Horizon WordProcessing

A Unix-based WP package with spelling checker and merged-mailing manager

Price \$295 purchase

Environment Computers: any running under Unix System III, Unix Version 7, Xenix, Idris, or Coherent. Main storage: not specified. Source language: not specified.

Capabilities Full-screen editing. Edits, formats, expands, deletes, merges, recalls, displays, and prints documents. Defines top, bottom, right, and left margins. Controls lines per inch, characters per inch, paragraph spacing, and page lengths. Numbers paragraphs. Vertical and horizontal spacing. Word wraparound. Vertical and horizontal cursor control. Search and replace. Headers and footers. Page numbering. Hyphenation. Hard spaces and hard hyphens suppress random breaks. Underline. Super- and subscripts. Aligns numeric column information. Displays Help messages. Spelling checker. Merged-mailing manager. Sort facility.

Description Horizon WordProcessing, designed for multiuser Unix-based computers in office automation environments, creates, edits, formats, and manages documents. In addition, the package saves, duplicates, concatenates, deletes, and catalogs documents. One backup copy is automatically generated for a document each time it is amended. The program is easy to learn and features such user aids as a command panel at the top of the screen, reference cards, a tutorial, a manual, and help messages that are displayed on the screen. Experienced users can use shortcuts to speed and simplify tasks. Users can store files in libraries of related documents. When searching for a given document, the system lists the file groups first and then files within that group, thus avoiding delays by bypassing long lists containing all system documents.

Compatibility Matrix: 218.0025.002
Features Matrix: 218.0030.002

HUMAN ENGINEERED SOFTWARE71 Park Ln
Brisbane CA 94005

(415) 468-4110

► HES Writer

A word processing program

Price \$40 purchase

Environment Computers: Commodore VIC-20. Main storage: 5K bytes. Source language: BASIC.

Capabilities Embedded format controls and commands. Line-oriented editor. Delete by line number. Pagination. Scroll down. Preview mode to check copy

before it is printed. Save files on disk or tape.

Description HES Writer is a cartridge-based word processing program featuring word wraparound and built-in color character combinations.

Compatibility Matrix: 218.0025.002
Features Matrix: 218.0030.002

IJG1953 W 11th St
Upland CA 91768(714) 946-5805
(714) 982-7829**► Electric Pencil**

A word processing package for the TRS-80 Model I and III

Price \$90 purchase

Environment Computers: Tandy TRS-80 Model I and III. Main storage: 32K bytes. Source language: not specified.

Capabilities Inserts and deletes lines, characters, and blocks of characters. Wild-card search key. Starts and stops cassette recorder from within Pencil. Variable cursor speed. Menu driven. Verifies and erases files. Various printing options.

Description Electric Pencil is a character-oriented word processing package allowing the user to search continually for a particular string, repeat a function, and display system options and printer menus. The wild-card feature enables the user to search for a particular pattern of characters in a text file without having to list it exactly. Information regarding the number of records and words in the file and the amount of available memory is displayed. The user can load a custom printer driver, set a tape baud rate and cursor speed, and clear selected text in memory.

Compatibility Matrix: 218.0025.002
Features Matrix: 218.0030.002

IJG

1953 W 11th St
Upland CA 91768

(714) 946-5805
(714) 982-7829

► Electric Pencil PC PRO-Pak

A WP package

Price \$500 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, and PCjr. Main storage: 64K bytes. Source language: Assembler.

Capabilities Menu-driven, full-screen, document-oriented editing. Edits any ASCII-format file. Insert, delete, and strikeover. Global search and replace with wild-card characters. Deleted text is stored in temporary buffer. Uses special-function keys. Redefinable keyboard for French, German, or Spanish. User-defined phrase library and keyboard macrofiles. Split-screen editing (up to six windows and two text files). Foreground and background color text. Centering. Right and left margin justification. Boldfaced and underlined printing. On-disk tutorial. Disk support.

Description Electric Pencil PC PRO-Pak consists of three programs: Electric Pencil text editor, Pencil-ACE advanced console editor, and Pencil Tutor on-screen training program. The IBM Personal Computer version of the Electric Pencil module is similar to earlier versions but includes the use of special-function keys for command execution. Pencil-ACE adds split-screen editing and allows users to redefine the keyboard. Pencil Tutor is a 62-page diskette-based training package that is cross-referenced to the Electric Pencil text editor user manual.

Compatibility Matrix: 218.0025.002
Features Matrix: 218.0030.002

INFORMATION UNLIMITED SOFTWARE (IUS)

2401 Marinship Way
Sausalito CA 94965

(415) 331-6700

► EasyWriter I System

A personal WP program with spelling checker and merged-mailing manager

Price \$295 purchase

Environment Computers: IBM PCjr, Personal Computer, Personal Computer XT, and compatible systems; Texas Instruments Professional Computer. Main storage: 128K bytes. Source language: Assembler.

Capabilities Supports split-screen editing. Horizontal scrolling across 255-character lines. Edits ASCII files. Search and replace. Block move and copy. Variable margins. Right margin justification. Print preview. Supports scientific and foreign language characters. On-screen Help menus. Undelete command. Includes

89,000-word spelling dictionary and merged-mailing manager.

Description EasyWriter I System, designed for personal use, includes the EasyWriter I WP program, EasySpeller I spelling checker, and EasyMailer I merged-mailing manager. The system supports a variety of dot matrix and letter-quality printers as well as a dynamic on-screen preview facility that enables users to view text before it is printed.

Compatibility Matrix: 218.0025.002
Features Matrix: 218.0030.002

INFORMATION UNLIMITED SOFTWARE (IUS)

2401 Marinship Way
Sausalito CA 94965

(415) 331-6700

► EasyWriter II System

A WP program that includes a spelling checker and merged-mailing manager

Price \$395 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, and compatible systems; Texas Instruments Professional Computer; Digital Equipment Rainbow 100. Main storage: 96K bytes. Source language: Assembler.

Capabilities Page-oriented editing. Supports lines of up to 255 characters. Horizontal scrolling. Word wrap-around. Global search and replace. Inserts and deletes by character, word, line, sentence, paragraph, block, or page. Interdocument copy and move. Built-in Help screens. Boldfaced printing. Headers and footers. Includes 80,000-word spelling checker. Supports merged-mailing form letters. Records document author, operator, input, date, and 30-character document title.

Description EasyWriter II System includes the EasyWriter II word processor, EasySpeller II spelling checker, and EasyMailer II merged-mailing manager. The EasyWriter II WP program permits simultaneous printing and editing of different documents. Up to 10 documents can be stacked for printing during edit sessions. The page-oriented editing function automatically loads each page to the screen and transfers it to disk storage as the user works through the text. The user can set tabs, temporary indentations, and page margins using the on-screen rulers. The EasyWriter II WP program displays text in the format in which it will be printed.

The EasyWriter II System is compatible with IUS EasyPlanner, EasyFiler, and EasyBusiness programs for use in generating reports, dunning notices, and sales letters.

Compatibility Matrix: 218.0025.002
Features Matrix: 218.0030.002

INTECOLOR

225 Technology Pk
Norcross GA 30092

(404) 449-5961

► Spectra-Text

A WP system

Price Vendor declined to provide

Environment Computers: Intecolor 8064 microcomputer. Main storage: 64K bytes. Source language: Assembly.

Capabilities Document-oriented system with global search and replace, records processing, up to four math functions, 16 user-defined keys, character swap, full ASCII character set, a Spell guard spelling dictionary, and automatic highlighting and margin justification. Spanish word processing can be accommodated.

Description Spectra-Text is a menu-driven, color-enhanced WP system designed specifically for the Intecolor 8064 CP/M-based microcomputer.

Compatibility Matrix: 218.0025.002
Features Matrix: 218.0030.002

INTELSOFT

1259 El Camino Real
Menlo Park CA 94025

(415) 854-2777

► DynaWriter

A WP package

Price \$100 purchase

Environment Computers: IBM Personal Computer. Main storage: 96K bytes. Source language: BASIC.

Capabilities Reformats margin size, paper width, characters per inch, line space, and print size. Manual or no wraparound. Insert. Delete. Move. Replace. Centers text. Sorts text alphabetically. Restores. Addresses envelopes or shipping labels.

Description DynaWriter operates either from prompts or by direct command. DynaWriter supports up to three printers under program control.

Compatibility Matrix: 218.0025.002
Features Matrix: 218.0030.002

INTERNATIONAL SOFTWARE ALLIANCE

1835 Mission Ridge Rd
Santa Barbara CA 93101

(805) 966-3077

► ProScript Text Formatter

A text formatting package

Price \$75 purchase

Environment Computers: any running under PC DOS. Main storage: 64K bytes. Source language: Assembly.

Capabilities Margin justification. Center. Format. Footers. Headers. Indent.

Description ProScript, combined with such text editors as Edlin, Vedit, or P-MATE, provides WP capabilities. The package includes 29 print directives, numbers paragraphs, and generates a table of contents. Multiple source files can be combined into one file.

Compatibility Matrix: 218.0025.003
Features Matrix: 218.0030.003

INTERNATIONAL SOFTWARE ALLIANCE

1835 Mission Ridge Rd
Santa Barbara CA 93101

(805) 966-3077

► Super Mail List

A mailing list package

Price \$39 purchase

Environment Computers: IBM Personal Computer. Main storage: 64K bytes. Source language: BASICA.

Capabilities Allows wild-card selection criteria. Interfaces to WordStar. Handles up to 1,000 members.

Description Super Mail List provides sufficient space for name, company name and address, and editing information. Sort codes assist in retrieving lists or labels.

Compatibility Matrix: 218.0025.003
Features Matrix: 218.0030.003

IT SOFTWARE

PO Box 2392
Princeton NJ 08540

(800) 222-0592
(609) 799-2600

► EditIT

A text editor

Price \$150 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT. Main storage: 64K bytes. Source language: not specified.

Capabilities Full-screen editing. Online file directory. User-defined multiple windows. Edits multiple files. Supports color text display. Cut and paste block move and copy. Merges and formats files. Optional mouse support. Includes interactive tutorial.

Description EditIT allows users to manipulate text from several files simultaneously. Each section of text can be displayed in a separate, user-defined window. EditIT makes full use of the special-function and cursor control keys of the IBM Personal Computer.

Compatibility Matrix: 218.0025.003
Features Matrix: 218.0030.003

IT SOFTWARE

PO Box 2392
Princeton NJ 08540

(800) 222-0592
(609) 799-2600

► WritIT

A WP package that operates with a family of integrated software

Price \$500 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT. Main storage: 128K bytes. Source language: not specified.

Capabilities Menu-driven, full-screen editor. Horizontal scrolling on documents up to 158 columns wide. Automatic pagination. Tab and indentation markers. Global search and replace from file directory on all documents or documents selected by author, keyword, or time period. User-defined phrase library. Print spooling. Boldfaced and shadowed printing. Includes 90,000-word spelling dictionary.

Description WritIT is a reconfigured release of Softword Systems' MultiMate WP program that interfaces directly to other ITSoftware programs. The IT-Software KeepIT DBMS can be used to prepare merged-mailing form letters.

Compatibility Matrix: 218.0025.003
Features Matrix: 218.0030.003

KENSINGTON MICROWARE

251 Park Ave S
New York NY 10010

(212) 475-5200

► Format II

A WP system for Apple and Franklin computers

Price \$150 purchase

Environment Computers: Apple II+, Apple IIe, and Franklin Ace. Main storage: 48K bytes. Source language: Applesoft BASIC.

Capabilities Full 80-character display. Full-screen editing. Page oriented. Automatic word wraparound. Mnemonic, single-letter commands. Global search and replace. Block move, copy, and delete. Extensive print formats. Includes mailing list manager and forms letter generator. Compatible with hard disk drives.

Description Format II stores text on disk in single, individually named pages. Several pages can be linked together as documents for word search and text printing operations.

Mailing lists of up to 442 records can be easily created by using the mailing list manager. The user can then specify which records from a given mailing list are required to generate a merged forms letter.

Format II runs under Apple DOS and requires an 80-character video board.

Compatibility Matrix: 218.0025.003
Features Matrix: 218.0030.003

LEADING EDGE PRODUCTS

225 Turnpike St
Canton MA 02021

(800) 343-6833
(617) 828-8150

► Leading Edge Word Processor

A WP program

Price \$300 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT. Main storage: 128K bytes. Source language: not specified.

Capabilities Full-screen editing. Cursor movement by character, word, line, sentence, screen, or page. Global search and replace. Text markers. Strikeover and letter transposition. Decimal tabbing. Centering. Boldfaced and underlined printing. Right margin justification. Font selection.

Description Leading Edge Word Processor uses the special-function keys of IBM personal computers to invoke editing and formatting commands. The program features split-screen editing and displays multiple-column text. Background printing is supported.

Compatibility Matrix: 218.0025.003
Features Matrix: 218.0030.003

LEXISOFT

PO Box 267
Davis CA 95616

(916) 758-3630

► Spellbinder

A word processing system with spreadsheet and merged-mail capabilities

Price \$495 purchase

Environment Computers: microcomputers running under CP/M, MP/M, CP/M-86, Concurrent CP/M-86, TurboDOS, OASIS, or PC DOS; Victor 9000 running under MS-DOS. Main storage: depends on system. Source language: Assembler.

Capabilities Features a 100-character string length, with one string per pass; unlimited block move/copy; up to 22 sort levels; 43 user-defined keys; a spelling dictionary; a 96-character ASCII set; multiterminal support; and automatic highlighting. Built-in calculator for spreadsheet-like operations.

Description Spellbinder offers a range of editing, print formatting, and data manipulation features. Print formats can be selected from a screen menu during editing sessions. Spellbinder supports proportional spacing, two-column printing, and a special formatting function that sets different margins on odd and even pages for use in back-to-back, bound reports. The built-in columnar math functions allow users to design and produce such forms as customer invoices on the Spellbinder WP program.

Compatibility Matrix: 218.0025.003
Features Matrix: 218.0030.003



LIFEBOAT ASSOCIATES

1651 Third Ave
New York NY 10028

(212) 860-0300

► MagicPrint

A text editing and formatting program

Price \$195 purchase

Environment Computers: any system based on CP/M-80 or SB-80. Main storage: 32K bytes. Source language: BASIC.

Capabilities Page header and footer completely under user control. Can edit page numbers and titles, as in regular text editing, in single or multiple lines with their own formatting attributes and place them anywhere on top or bottom of page. Print characteristics—such as line length and page size—can be changed by simple dot commands without having to reformat each page on the CRT.

Description In addition to performing standard word processing, MagicPrint offers four modes of justification, microcentering, automatic footnoting, right flush, accents, columns, character kerning, and 50 other page formatting features. MagicPrint works in conjunction with WordStar.

Compatibility Matrix: 218.0025.003

Features Matrix: 218.0030.003

LIFETREE SOFTWARE

411 Pacific St
Suite 315
Monterey CA 93940

(408) 373-4718

► Volkswriter

A word processing package

Price \$195 purchase

Environment Computers: IBM Personal Computer. Main storage: 128K bytes. Source language: Pascal.

Capabilities Four direction cursor control. Scrolling. Insert/delete. File reading and writing. Block definition and manipulation. Global search and replace.

Description Volkswriter is a word processing package divided into two similar but separate operational sections. The edit module provides editing functions such as insertion and deletion, while the print module has the ability to call in frequently used (boilerplate) phrases or paragraphs and automatically insert them into the text during printing. The print module prints page numbers on the bottom of each page and stores format information in separate files that the user may call as needed.

Compatibility Matrix: 218.0025.003

Features Matrix: 218.0030.003

LIFETREE SOFTWARE

411 Pacific St
Suite 315
Monterey CA 93940

(408) 373-4718

► Volkswriter Deluxe

A WP program with merged-mailing manager

Price \$285 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, and compatible systems; Texas Instruments Professional Computer, Victor 9000, and Digital Equipment Rainbow 100 under MS-DOS. Main storage: not specified. Source language: Pascal.

Capabilities Full-screen editing. Supports lines of up to 250 characters. Horizontal scrolling. NotePad function allows temporary, unrelated memos to be written on screen during editing. Help menus. On-screen color text display. Redefinable keyboard for use with scientific or foreign language character sets. Super- and subscripts. Proportional spacing. Built-in merged-mailing manager.

Description Volkswriter Deluxe includes an enhanced version of the Volkswriter WP program and the TextMerge merged-mailing manager. TextMerge allows users to maintain lists of items or names and combine information from these lists into documents created by the WP program. Wordwriter Deluxe is compatible with files created by Lotus 1-2-3, VisiCorp VisiCalc, Ashton-Tate dBASE II, and other programs using ASCII-format files. All documents created under Volkswriter Deluxe are stored on diskette in ASCII format, allowing a variety of spelling checkers to be used for proofreading.

Compatibility Matrix: 218.0025.003

Features Matrix: 218.0030.003

MARC SOFTWARE INTERNATIONAL

260 Sheriden Ave
Suite 200
Palo Alto CA 94306

(415) 326-1971

► WordMARC

A WP package

Price \$595 purchase

Environment Computers: IBM Personal Computer (with hard disk) and Personal Computer XT. Main storage: 320K bytes. Source language: not specified.

Capabilities Checks spelling. Merges mail lists with form letters. Recovers documents. Copies and moves blocks of text. Supports 13 levels of super- and subscripts. Prints overstrike characters. Automatic pagination. Multiline headers and footers. Automatic page numbering. Global search and replace. Supports Greek and math character sets. Proportional spacing. Stores margins and tabs.

Description WordMARC is a menu-driven WP package that features document encryption, prompting in eight languages, an abbreviation library, function keys, and interfaces to numerous data bases. Versions of WordMARC are also available for several large-scale computers, including systems marketed by Prime, Harris, Digital Equipment, and Apollo.

Compatibility Matrix: 218.0025.003
Features Matrix: 218.0030.003

MARK OF THE UNICORN

222 Third St
Cambridge MA 02142

(617) 576-2760

► Mince

A text processing system

Price \$175 purchase

Environment Computers: any running under CP/M, PC DOS, MS-DOS, or CP/M-68K. Main storage: 48K bytes. Source language: C.

Capabilities Features a 254-character ASCII set. Global search and replace. Block move and copy. Over-typing. Word wraparound and centering.

Description Mince is a full-screen text editor for use on a variety of microcomputers. Users can edit up to seven files simultaneously through two user-defined screen windows. On the IBM Personal Computer, Mince makes use of the special-function keys for command selection.

Compatibility Matrix: 218.0025.003
Features Matrix: 218.0030.003

MARK OF THE UNICORN

222 Third St
Cambridge MA 02142

(617) 576-2760

► The Final Word

A word processing system

Price \$300 purchase

Environment Computers: any running under CP/M, CP/M-86, PC DOS, or MS-DOS. Main storage: 56K bytes. Source language: C.

Capabilities Features global search and replace, block move and copy, paginate/repaginate, character swap, and a 254-character ASCII set. Word wrap-around. Centering. Underlined and boldfaced text. Supports proportional and microspaced printing on a variety of printers.

Description The Final Word is a document-oriented WP program that features split-screen editing of up to seven files simultaneously. The program can also generate keyword indexes and document tables of contents. A special crash-recovery feature allows reconstruction of documents and files. In the event of a diskette failure, The Final Word loads as much of the file as possible; unreadable portions of the file are displayed as asterisks and can be reedited by the user.

Compatibility Matrix: 218.0025.003
Features Matrix: 218.0030.003

MEGAHAUS CORP

5703 Oberlin Dr
San Diego CA 92121

(619) 450-1230

► MegaWriter

A WP program

Price \$100 purchase (includes run-time UCSD p-System)

Environment Computers: Apple II+ and Ile, IBM Personal Computer and compatible systems. Main storage: 64K bytes. Source language: Pascal.

Capabilities Menu driven. Uses mnemonic commands. Word wraparound. Character cursor movement. Search and replace. Menu-driven print formatting. Line-by-line justification. Underlined or boldfaced text. Merged-mailing manager.

Description MegaWriter includes three facilities: the WP program, the print processor, and the disk organizer. The WP program can edit any file created under the UCSD p-System, but the UCSD p-System slows program response. The print processor uses a variety of options to format UCSD p-System files. The disk organizer allows users to copy, rename, delete, or scan specified documents.

Compatibility Matrix: 218.0025.003
Features Matrix: 218.0030.003

METASOFT CORP

6509 W Frye Rd
Suite 12
Chandler AZ 85224

(602) 961-0003

► **BENCHMARK Mail List**

A mailing list program for a variety of computers

Price \$150 purchase

Environment Computers: any running under CP/M, CP/M-86, MP/M-86, MS-DOS, or PC DOS. Main storage: 48K bytes. Source language: Assembler.

Capabilities Full editing. Creates, deletes, revises, and merges lists. Stores mail list and word processor files on same disk. Records date and time of entry for each item. Saves data common to many items.

Description BENCHMARK Mail List is a key-driven mailing list program designed to perform a variety of functions in an office environment. It has the ability to select entries that meet user-defined criteria by scanning lists. The program is self-prompting throughout in English and features standard BENCHMARK directories.

Compatibility Matrix: 218.0025.003
Features Matrix: 218.0030.003

METASOFT

6509 W Frye Rd
Suite 12
Chandler AZ 85224

(602) 961-0003

► **BENCHMARK 3.0**

A WP package

Price \$350 purchase

Environment Computers: any running under CP/M, CP/M-86, MP/M-86, MS-DOS, or PC DOS. Main storage: 48K bytes. Source language: Assembler.

Capabilities Merges existing and new documents. Variable horizontal and vertical spacing. Proportional spacing. Word wraparound with user-definable hot zone. Right margin justification. Cut and paste between documents. Global search and replace. Underlining. Boldface. Strikeover. Control of widow and orphan lines.

Description BENCHMARK 3.0 provides on each document diskette a directory of documents that includes the document numbers and titles, author initials, and date and time of the last revision. Control codes can be displayed on the screen or suppressed. In addition, BENCHMARK 3.0 reads and writes CP/M-compatible files and can store 52 phrases, assigning each phrase to a key for repeated use.

Compatibility Matrix: 218.0025.003
Features Matrix: 218.0030.003

MICROMATION LTD

1 Yorkdale Rd
Suite 406
Toronto Ontario Canada M6A 3A1

(416) 781-6675

► **Gutenberg Sr**

A word/text processor for the Apple II computer

Price \$315 purchase

Environment Computers: Apple II, II+, and IIe. Main storage: 48K bytes. Source language: not specified.

Capabilities Writes letters, documents, and books. Mathematical functions within text. Merges files and blocks of text. Expanded or compacted characters. Underline. Overstrike, double strike. Split screen and scroll. Free-form draw mode for combining graphics with text. Allows users to design special character sets for use on dot matrix printers. Utility for transferring CP/M and Apple DOS files.

Description Gutenberg Sr is a word and text processing system that performs a wide variety of functions. Output can be formatted in as many ways as a user's printer will allow. The system features text merging from multiple files and a paint program for cut-and-paste functions. It can prepare special pages, drawings, headlines, and borders.

Though Gutenberg Sr offers an extensive set of print formatting options, the text editing commands are confusing. Micromation offers a simplified version of this program, called Gutenberg Jr.

Compatibility Matrix: 218.0025.003
Features Matrix: 218.0030.003

MICROPRO INTERNATIONAL

33 San Pablo Ave
San Rafael CA 94903

(415) 499-1200

► **WordStar**

A WP program

Price \$495 purchase

Environment Computers: any running under CP/M, CP/M-86, PC DOS, or MS-DOS; Tandy TRS-80 microcomputers. Main storage: 48K bytes. Source language: Assembler.

Capabilities Menu-driven, full-screen editing. Automatic buffering between memory and disk. Horizontal scrolling. Word wraparound. Hyphenation. Global search and replace. Variable tabs. Repagination. Boldface and underlined printing. Super- and subscripting.

Description WordStar is compatible with a variety of computers, terminals, and printers. Though its command structure is difficult to learn, the program provides powerful editing and formatting features. WordStar edits all standard ASCII-format files, using either document mode (with embedded formatting codes) or nondocument mode (no embedded codes).

Compatibility Matrix: 218.0025.003
Features Matrix: 218.0030.003

MICROPRO INTERNATIONAL

33 San Pablo Ave
San Rafael CA 94903

(415) 499-1200

► **WordStar Professional**

A WP program with spelling checker, merged-mailing manager, and index generator

Price \$695 purchase

Environment Computers: any running under CP/M, CP/M-86, PC DOS, or MS-DOS; Tandy TRS-80 microcomputers. Main storage: 48K bytes. Source language: Assembler.

Capabilities Full-screen editing. Global search and replace. Hyphenation. Super- and subscripting. Printer spooling. Includes spelling checker and merged-mailing manager. Generates indexes and tables of contents from codes embedded in text.

Description WordStar Professional combines the WordStar WP program with the CorrectStar spelling checker, MailMerge mailing manager, and StarIndex index generator. StarIndex searches for codes embedded in text to generate keyword indexes and document tables of contents. The program automatically tracks document page numbers and can regenerate indexes and tables after large sections of text have been moved.

Compatibility Matrix: 218.0025.003
Features Matrix: 218.0030.003

MICROSOFT

10700 Northup Way
Bellevue WA 98004

(206) 828-8080

► **Microsoft Word**

A WP package

Price Purchase: \$375 (MS-DOS), \$475 (with the Microsoft mouse), \$195 (Apple Macintosh)

Environment Computers: any running under MS-DOS; Apple Macintosh. Main storage: 64K bytes (MS-DOS 1.1), 128K bytes (MS-DOS 2.0 and Apple). Source language: not specified.

Capabilities Full bit-mapped display screen. Displays up to 64 type fonts. Boldface. Italic. Underline. Super- and subscripting. Makes use of pull-down menus on Apple Macintosh.

Description Microsoft Word uses a mouse to select and execute commands. The package does not use the character-generation logic of the host but instead uses the screen as a full bit-mapped display. Thus, special format commands, such as super- and subscripting, can appear on the screen exactly as they will be printed. The screen displays up to 64 combinations of type fonts and sizes, including normal, boldface, italic, and underline. The program features an undo command that nullifies the previous command, regardless of whether it is an erase, search, or copy command.

Compatibility Matrix: 218.0025.003
Features Matrix: 218.0030.003

MUSE SOFTWARE

347 N Charles St
Baltimore MD 21201

(301) 659-7212

► **Super-Text Home Office**

A WP package

Price \$125 purchase

Environment Computers: Apple II, II+, and IIe. Main storage: 48K bytes. Source language: not specified.

Capabilities Full-screen editing. Displays 40-, 56-, or 70-column text. Embedded format commands. User-defined keys. Locates most recent change made to a document. Global search and replace. Counts number of strings replaced while executing a search-and-replace routine. Supports three user-selectable character fonts for display. Block manipulation. Supports headers and footers with multiple lines on every page or alternate pages.

Description Super-Text Home Office displays upper- and lowercase characters on Apple computers without requiring additional hardware. In addition, high-resolution character sets can be defined in the design mode. A directory lists file names stored on each disk as well as the current amount of unused disk space.

Compatibility Matrix: 218.0025.003
Features Matrix: 218.0030.003



MUSE SOFTWARE347 N Charles St
Baltimore MD 21201

(301) 659-7212

► Super-Text Professional

A WP package

Price Purchase: \$175 (Apple and IBM), \$99 (Commodore)**Environment** Computers: Apple II, II+, and IIe; IBM Personal Computer; Commodore 64. Main storage: 48K bytes. Source language: not specified.**Capabilities** Full-screen editing. Provides embedded formatting commands. User-defined keys. Global search and replace. Locates most recent changes made to a document. Counts number of strings replaced during a search-and-replace routine. Block manipulation. File merging. Supports headers and footers with multiple lines on every page or alternate pages. Split-screen capability, math mode, and character swap.**Description** Super-Text Professional is a memory-based WP program. It features a type-ahead buffer that prevents the system from dropping characters during rapid input. A directory lists file names stored on each disk as well as the current amount of unused disk space. On Apple computers, Super-Text Professional supports a variety of 80-column adapter cards.**Compatibility Matrix:** 218.0025.003
Features Matrix: 218.0030.003

NBI INC3450 Mitchell La
PO Box 9001
Boulder CO 80301

(303) 444-5710

► NBI Word Processor

An add-on, board-based WP program

Price \$695 purchase**Environment** Computers: IBM Personal Computer and Personal Computer XT, COMPAQ/+ Personal Computer. Main storage: 128K bytes. Source language: Assembler.**Capabilities** Full-screen, document-oriented editing. Scrolling and editing through page breaks. Global or verified search and replace. Block move, copy, and delete. Word wraparound. Automatic repagination. Dynamic page formatting. Hyphenation. Decimal tabbing. Text centering. Justification. Headers and footers. Bold-faced and underlined text. Strikeover. Print preview. Widow and orphan control. Variable pitch. Reads and writes PC DOS files. Reads and writes documents created by NBI OASys WP systems. Password security.**Description** The NBI Word Processor program is supplied with an easy-to-install add-on coprocessor board. The add-on board contains a Motorola MC 6800 microprocessor that allows the IBM Personal Computer

to run programs used by NBI's dedicated word processors.

The NBI Word Processor offers a variety of sophisticated WP functions: it processes form letters and records; generates outlines using Arabic standard, Roman standard, or multilevel numbering and indentation; and performs background printing.

Compatibility Matrix: 218.0025.003**Features Matrix:** 218.0030.003

NORDELL DATA SYSTEMS3400 Wilshire Blvd
Los Angeles CA 90010

(213) 257-2026

► Easyproof Spelling Checker

A spelling checker package

Price \$49 purchase**Environment** Computers: IBM Personal Computer and compatible systems running under PC DOS. Main storage: 64K bytes (minimum), 128K bytes (standard). Source language: not specified.**Capabilities** Flags unknown words for correction or addition to dictionary. Recognizes word roots. Lookup feature displays list of all unknown words in a text file.**Description** Easyproof, a simple spelling checker for the IBM Personal Computer, compares text files with a disk-based dictionary. Easyproof notes and reports unrecognized words. The user has several options for handling unrecognized words. If the word is incorrectly spelled, it can be flagged for subsequent re-editing under the WP program. The word can be added to the Easyproof dictionary, or a word root can be defined and added to the dictionary. If the root is included, Easyproof can recognize related words, even when they are not listed in the dictionary.

Easyproof ignores the print-formatting commands and special control characters used by most word processors.

Compatibility Matrix: 218.0025.004**Features Matrix:** 218.0030.004

NORDELL DATA SYSTEMS

3400 Wilshire Blvd
Los Angeles CA 90010

(213) 257-2026

► Easytext

A text formatting program

Price \$79 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, and compatible systems. Main storage: 64K bytes. Source language: not specified.

Capabilities Centering. Boldfaced and underlined printing. Strikeover. Fill and right margin justification. Super- and subscripting. Inserts page numbers. Hyphenation. Text substitution. Direct keyboard entry for minor text revisions.

Description Easytext formats documents created with a text editor. It automatically calculates top, bottom, left, and right margins and inserts headers and footers based on codes embedded in the text. The program creates keyword indexes and document tables of contents. Easytext works with all ASCII-format files.

Compatibility Matrix: 218.0025.004
Features Matrix: 218.0030.004

OASIS SYSTEMS

2765 Reynard Way
San Diego CA 92103

(714) 291-9489

► Word Plus

A spelling checker program

Price \$150 purchase

Environment Computers: any based on the Intel 8080 or Zilog Z80 microprocessor. Main storage: 32K bytes. Source language: not specified.

Capabilities Includes 45,000-word dictionary file. Displays vertical word list. Menu of options such as look up word, view word in context, and correct text file. Allows user to create custom dictionary. Hyphen check.

Description Word Plus is a series of small routines (ten programs and several utility files). Each program can be executed individually. The system includes an anagram feature, a hyphen-checking program, a word frequency checker, and a word counter. A menu permits such options as the look up program, which enables the user to see words in the dictionary that are a close match to a questionable word. The user can view the words in context to make the correction in the text file. An automatic self-check feature is built into each program.

Compatibility Matrix: 218.0025.004
Features Matrix: 218.0030.004

OHIO DATA BASE

4402 W 215
No. 1
Cleveland OH 44126

(216) 333-5033

► Alpha-Vue

A word processing system for the Alpha Micro S-100

Price \$2,500 purchase

Environment Computers: Alpha Micro Model S-100. Main storage: 64K bytes. Source language: Assembly.

Capabilities Features a 572-character string, with one string per pass; three sort levels, a 50,000-word spelling dictionary, full ASCII character set, unlimited block move/copy, word wraparound, character swap, multi-terminal support, and fully automatic spacing and margin functions.

Description Alpha-Vue is a page-oriented word processing system designed specifically for the Alpha Micro Model S-100 computer system operating under AMOS. The system is available on diskette or magnetic tape.

Compatibility Matrix: 218.0025.004
Features Matrix: 218.0030.004

OWL SOFTWARE

6927 Atoll Ave
North Hollywood CA 91605

(213) 982-6243

► Textplus

A WP and mail-merging system

Price \$240 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT, COMPAQ and Columbia systems. Main storage: 128K bytes. Source language: BASIC and compiled BASIC.

Capabilities Boldfaced and compressed printing. Underlining. Subscripting. Imbedded commands for page numbering, headers, footers, and user-defined margins. Merging data fields or text files with other documents. Global search and replace. Repagination. Supports any printer. Proportional spacing. Edits any ASCII-format file. Includes merged-mailing system.

Description Textplus includes three integrated programs that feature a screen editor; data file manager; print spooler; mail-merging capability; simple calculator; file inquiry; and select, sort, and report capabilities. Labeled function keys, a demonstration diskette, and Help screens enable the user to learn Textplus features quickly.

Compatibility Matrix: 218.0025.004
Features Matrix: 218.0030.004

PALANTIR SOFTWARE3400 Montrose Blvd
Houston TX 77006

(713) 520-8221

► Palantir Word Processor

A WP package

Price \$450 purchase**Environment** Computers: IBM Personal Computer and Personal Computer XT; Zenith Z100, Victor 9000 microcomputers; microcomputers running under CP/M. Main storage: not specified. Source language: not specified.**Capabilities** Menu driven. Proportional spacing. Single-character mnemonic commands. Special-function keys. Boldface. Full formatting. Supports 250-character lines. Horizontal scrolling. Virtual scrolling (the document can be as large as the disk). Mail merge. If-then conditional operations. Arithmetic operations. Full-screen edit. Global search and replace. Phrase library.**Description** Palantir Word Processor uses the dedicated function keys of the IBM Personal Computer for editing and displays boldfaced and underlined text on the screen. A sophisticated sheet-feed driver is available, as is a spelling checker and an electronic filing system.**Compatibility Matrix:** 218.0025.004
Features Matrix: 218.0030.004

PEACHTREE SOFTWARE3445 Peachtree Rd NE
Eighth Fl
Atlanta GA 30326

(404) 239-3000

► PeachText

A WP program

Price \$250 purchase**Environment** Computers: Apple, Hewlett-Packard, and other microcomputers running under CP/M; IBM Personal Computer, Personal Computer XT, and compatible systems; Victor 9000, Texas Instruments Professional Computer, and Zenith Z-100 under MS-DOS. Main storage: depends on computer. Source language: CBASIC.**Capabilities** Full-screen editing. Allows two documents to be edited simultaneously. Block move, copy, and delete. Deletion by character, word, or line. Global search and replace. Right margin justification. Print format commands can be invoked from embedded text commands or from print menu. Boldfaced and underlined printing. Super- and subscripts. Variable pitch. Headers and footers. Print spooling. Supports user-defined variables for use with optional merged-mailing manager.**Description** PeachText, originally developed as Magic Wand, is a menu-driven WP program that allows two

documents to be edited simultaneously. PeachText is also available as part of the PeachText 5000 system, which includes the WP program, an electronic thesaurus, the PeachCalc spreadsheet program, a spelling proofreader, and a list management program.

Compatibility Matrix: 218.0025.004
Features Matrix: 218.0030.004

PERFECT SOFTWARE1001 Camelia St
Berkeley CA 94710(800) 222-4222
(415) 527-2626**► Perfect Writer**

A WP system

Price Purchase: \$349; \$399 with spelling checker**Environment** Computers: any running under CP/M; IBM Personal Computer, Personal Computer XT, and compatible systems; Texas Instruments Professional Computer and Zenith Z-100 under MS-DOS. Main storage: 64K bytes. Source language: C.**Capabilities** Menu-driven full-screen editing. Edits documents larger than computer memory. Generates indexes and document tables of contents. Footnotes. Headers and footers. Boldfaced and underlined printing. Super- and subscripting. Repagination. Global search and replace. Block move, copy, and delete. Optional spelling checker.**Description** Perfect Writer allows users to edit several documents simultaneously. The screen can be split into two windows and used to edit different documents or portions of the same document. Perfect Writer uses the same menu structure as other Perfect Software programs and also features a set of pop-up menus that guide the user during editing sessions.**Compatibility Matrix:** 218.0025.004
Features Matrix: 218.0030.004

PROFESSIONAL SOFTWARE51 Fremont St
Needham MA 02194

(617) 444-5224

► WordPlus-PC

A WP program with optional spelling checker

Price Purchase: \$395; \$495 with spelling checker**Environment** Computers: IBM Personal Computer, Personal Computer XT, and compatible systems; Texas Instruments Professional Computer; Digital Equipment Rainbow 100; Televideo 1603 Series. Main storage: 64K bytes. Source language: Assembler.**Capabilities** Full-screen, document-oriented editing. Edits ASCII-format files. Global search and replace with 16-character search string. Word wraparound. Block move and copy. Pagination. Print preview. Records processing. Right margin justification. Variable pitch spacing. Boldfaced and underlined printing. Centering. Optional 90,000-word spelling dictionary with facility for user-specified words.**Description** WordPlus-PC is a document-oriented word processor that uses commands embedded in text to control document formats. Editing commands are invoked through the special-function keys of the microcomputer.

WordPlus-PC is available with The BOSS, a built-in, online spelling system that scans text files for spelling errors. When an error is found, The BOSS highlights the error and displays up to eight spelling suggestions arranged in order of probable phonetic correctness. After the user selects the correct spelling, The BOSS automatically corrects the misspelled word.

Compatibility Matrix: 218.0025.004
Features Matrix: 218.0030.004

PROFESSIONAL SOFTWARE51 Fremont St
Needham MA 02194

(617) 444-5224

► WordPro 2-Plus

A WP program for Commodore computers

Price \$200 purchase**Environment** Computers: Commodore 4016, 4032, 8032. Main storage: 16K bytes. Source language: Assembler.**Capabilities** Status line indicator. Character/line insert/delete. Variable scrolling. Cursor control. Left/right margin control. Centering. Embedded comment commands. Automatic text merging. Recalls, merges, and copies text files. Verifies and duplicates diskettes. Recalls common format commands.**Description** WordPro 2-Plus is a word processing program with such editing features as extra text mode, block indent, and super- and subscripts. It also offers

continuous print output. It is available on cassette tape and diskette.

Compatibility Matrix: 218.0025.004
Features Matrix: 218.0030.004

PROFESSIONAL SOFTWARE51 Fremont St
Needham MA 02194

(617) 444-5224

► WordPro 3-Plus

A word processing package

Price \$295 purchase**Environment** Computers: Commodore 4032. Main storage: 32K bytes. Source language: Assembler.**Capabilities** Status line indicator. Character/line insert/delete. Variable scrolling. Left/right margin justification. Centering. Recalls, merges, and links text files. Global search and replace. Audio feedback. Math functions. Decimal tabulation. Flexible embedded formatting. Displays 40 columns.**Description** WordPro 3-Plus is a document-oriented word processing package that provides math and numerous word processing functions. It allows the user to prescribe and alter the format of a document at any point in the text by using a series of embedded commands produced by the control mode. The user can insert additional text, frequently used phrases, and address lists through the "extra-text" area. The control mode also allows the user to specify headers, footnotes, and page numbers during input and to store the specifications with the page format.**Compatibility Matrix:** 218.0025.004
Features Matrix: 218.0030.004

PROFESSIONAL SOFTWARE51 Fremont St
Needham MA 02194

(617) 444-5224

► WordPro 3-Plus 64

A WP program and spelling checker

Price \$100 purchase**Environment** Computers: Commodore 64. Main storage: 64K bytes. Source language: Assembler.**Capabilities** Insert and delete by character or line. Global search and replace. Merges and links text files for editing or printing. Left and right margin justification. Includes built-in spelling checker.**Description** WordPro 3-Plus 64 is a document-oriented WP program. It features text-embedded formatting commands that allow the user to change text format at any point. The SpellRight Plus spelling checker is included with the WordPro 3-Plus 64.**Compatibility Matrix:** 218.0025.004
Features Matrix: 218.0030.004

PROFESSIONAL SOFTWARE

51 Fremont St
Needham MA 02194

(617) 444-5224

► WordPro 4-Plus

A WP package for Commodore computers

Price \$450 purchase

Environment Computers: Commodore 8032 and SuperPet. Main storage: not specified. Source language: Assembler.

Capabilities Status line indicator. Character/line insert/delete. Variable scrolling. Left/right margin justification. Centering. Flexible embedded formatting. Recalls, merges, and links text files. Global search and replace. Audio feedback. Math functions. Simultaneous I/O. Additional text area available. Output to video display.

Description WordPro 4-Plus is a word processing package that provides all the capabilities of WordPro 3-Plus as well as such features as horizontal directory, automatic directory tabs, and automatic tab saving. The 80-column display permits the user to write formatted pages to the screen in their final printed form. The program includes a variety of one-stroke commands for such functions as boldface, underline, super- and subscripts, and block insertions.

Compatibility Matrix: 218.0025.004
Features Matrix: 218.0030.004

PROFESSIONAL SOFTWARE

51 Fremont St
Needham MA 02194

(617) 444-5224

► WordPro 5-Plus

A WP system for the Commodore CBM 8096

Price \$450 purchase

Environment Computers: Commodore CBM 8096. Main storage: 64K bytes. Source language: not specified.

Capabilities Status line indicator. Character/line insert/delete. Variable scrolling. Left/right margin justification. Centering. Flexible embedded formatting. Recalls, merges, and links text files. Global search and replace. Audio feedback. Math functions. Simultaneous I/O. Additional text area. Expanded separate text editing areas. Output to video display.

Description WordPro 5-Plus includes all the major features of WordPro 4-Plus and, due to the additional memory available in the Commodore 8096, offers significantly larger foreground and background text editing areas.

Compatibility Matrix: 218.0025.004
Features Matrix: 218.0030.004

QUARK INC

2525 W Evans
Suite 220
Denver CO 80219

(303) 934-2211

► Word Juggler IIe

A WP program with a spelling checker

Price \$189 purchase

Environment Computers: Apple IIe. Main storage: 64K bytes. Source language: Assembler.

Capabilities Full-screen, document-oriented editing. Deletion by character, word, or paragraph. Block move and copy. Global search and replace. Handles documents up to 254 characters wide. Horizontal scrolling. Print preview. Super- and subscripting. Boldfaced and underlined printing. Microjustification. Automatic page numbering and repagination. Form letter facility. Includes spelling checker with 50,000-word dictionary.

Description Word Juggler IIe includes a keyboard template and a set of 19 easy-to-install keycaps to identify principal editing and printing functions. Most commands can be invoked by a single keystroke. Word Juggler IIe includes the Lexicheck IIe spelling checker.

Compatibility Matrix: 218.0025.004
Features Matrix: 218.0030.004

QUARK INC

2525 W Evans
Suite 220
Denver CO 80219

(303) 934-2211

► Word Juggler III

A text editing system

Price \$229 purchase

Environment Computers: Apple III. Main storage: 128K bytes. Source language: BASIC.

Capabilities Full-screen document-oriented editing. Deletion by character, word, or paragraph. Block move and copy. Global search and replace. Edits documents up to 254 characters wide. Horizontal scrolling. Print preview. Super- and subscripting. Boldfaced and underlined printing. Microjustification. Repagination. Form letter facility, using keyboard entry or direct interface to Apple's Mail List Manager. Includes spelling checker with 50,000-word dictionary. Optional modular utilities, including legal dictionary option, telecommunications interface, and spooler for simultaneous data entry.

Description Word Juggler III uses a printed template placed over the keyboard to identify principal editing and print formatting options. Most commands can be invoked by one keystroke. Word Juggler III also allows reports generated by VisiCorp's VisiCalc III to be placed anywhere within documents. Many options are available for use with Word Juggler III, including Type-Face, a program that allows Word Juggler III documents to be transmitted directly to a computerized typesetting system.

Compatibility Matrix: 218.0025.004
Features Matrix: 218.0030.004

SAMNA CORP

2700 NE Expressway
Suite C-1200
Atlanta GA 30345

(404) 321-5006

► Samna Word II

A WP program

Price \$450 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT; Texas Instruments Professional Computer; Digital Equipment Rainbow 100. Main storage: 128K bytes. Source language: Assembler.

Capabilities Full-screen editing. Edits ASCII-format files, including those generated by Lotus 1-2-3 or Ashton-Tate dBASE II. Edits two documents through split-screen window. Block move, copy, and delete. Global search and replace. On-screen Help facility provides three levels of instruction. Print preview. Decimal alignment. Headers and footers. Footnoting with dynamic window control. Background printing.

Description Samna Word II is a function-key-driven WP program for a variety of microcomputers. Users can insert and delete characters, words, sentences, paragraphs, or entire pages with the Insert and Delete keys on the computer keyboard. Samna Word II offers a comprehensive mix of easy-to-use but sophisticated features. The program allows users to enter up to 50 lines of text and print the text directly from the screen without creating a disk file. Samna Word II can also "fold" a page in half to handle snaking multicolumn text. A zoom feature displays a miniature depiction of a page for use in evaluating overall page layout.

Compatibility Matrix: 218.0025.004
Features Matrix: 218.0030.004

SATELLITE SOFTWARE INTERNATIONAL

288 W Center St
Orem UT 84057

(801) 224-8554

► PERSONAL WordPerfect

A WP program

Price \$195 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, and compatible systems; Victor 9000 under MS-DOS. Main storage: 128K bytes. Source language: Assembler.

Capabilities Full-screen editing that uses special-function and cursor movement keys. Word wraparound. Automatic repagination. Hyphenation. Global search and replace. Centering. Boldfaced and underlined printing. Super- and subscripting. Headers and footers.

Description PERSONAL WordPerfect offers the basic text editing capabilities of WordPerfect without the latter's multiple text columns or advanced footnoting, mathematical, and merged-mailing functions. Satellite Software International offers a trade-in program for PERSONAL WordPerfect users wishing to upgrade to WordPerfect.

Compatibility Matrix: 218.0025.004
Features Matrix: 218.0030.004



SATELLITE SOFTWARE INTERNATIONAL288 W Center St
Orem UT 84057

(801) 224-8554

► WordPerfect

A WP program with spelling checker and merged-mailing manager

Price \$495 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, and compatible systems; Victor 9000 and Zenith Z-100 under MS-DOS. Main storage: 128K bytes. Source language: Assembler.

Capabilities Features forward and backward global search and replace, block move/copy, four math functions, paginate/repaginate, user-defined keys, a 94-character set, word wraparound, line-drawing graphics, stored print formats, snaking columns, and all margin, spacing, and highlighting functions. Hyphenation. Includes merged-mailing manager with nine sort levels and spelling checker with 30,000-word dictionary. Optional sort utility.

Description WordPerfect uses special-function and cursor movement keys for creating, editing, and printing text. Printing options include proportional spacing, headers and footers, and super- and subscripting. WordPerfect edits and prints multicolumn text.

Compatibility Matrix: 218.0025.004
Features Matrix: 218.0030.004

SCHUCHARDT SOFTWARE SYSTEMS515 Northgate Dr
San Rafael CA 94903

(415) 492-9330

► InteWord

A WP package with a built-in merged-mailing system

Price \$395 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, and compatible systems; Televideo 1605 under MS-DOS. Main storage: 128K bytes. Source language: not specified.

Capabilities Command-driven, document-oriented, full-screen editing. Edits ASCII-format files of up to 512K bytes. Merges files. Global search and replace with wild-card characters. User-defined phrase library. Widow and orphan control. Math functions. Proportional spacing. Right margin justification. Boldfaced and underlined text. Sub- and superscripting. Multiline headers and footers.

Description InteWord uses an English-like command structure that allows first-time users to create or update single-page letters or multipage documents easily. In addition to the full-featured text editor, InteWord has a typewriter mode that routes each character directly from the keyboard to the printer.

InteWord is part of the InteSoft series of integrated office software.

Compatibility Matrix: 218.0025.004
Features Matrix: 218.0030.004

SELECT INFORMATION SERVICES919 Sir Frances Drake Blvd
Kentfield CA 90904

(415) 459-4003

► Select Write

A WP program

Price \$99 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, PCjr, and compatible systems. Main storage: not specified. Source language: Assembler.

Capabilities Full-screen editing using single-keystroke mnemonic commands. Block move and copy. Search and replace. Right and full margin justification. Repagination. Print preview.

Description Select Write includes the basic text editing and formatting capabilities of Select: The Word Processor, but it does not include the latter's spelling checker or merged-mailing manager.

Compatibility Matrix: 218.0025.004
Features Matrix: 218.0030.004

SELECT INFORMATION SERVICES

919 Sir Frances Drake Blvd
Kentfield CA 90904

(415) 459-4003

► Select: The Word Processor

A WP program with spelling checker and merged-mailing manager

Price \$295 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, and compatible systems; any system running under CP/M-86 or CP/M (8-inch format). Main storage: 48K bytes. Source language: Assembler.

Capabilities Checks spelling. Merges mailing list with text. Block move and copy. Vertical scrolling. Disk spooling. Display of available system commands. Stored print formats. Centering, tabbing, margin setting, and indentation. Global search and replace. Backward and forward searching. Right- and left-hand margin justification. Incremental spacing. Repagination. Single- and multiple-line headers and footers. Boldfaced and underlined printing. Super- and subscripting.

Description Select: The Word Processor features a set of mnemonic commands for editing and formatting functions. It supports a user-defined phrase library that is executed using the special-function and numeric keys of the microcomputer. The program features decimal tabbing and allows tab stops to be saved for later use. Search functions can scan for punctuation marks. A cursor memory feature automatically returns the cursor to the previous text entry point.

A Teach program included with Select: The Word Processor introduces users to the WP program's commands and capabilities.

Compatibility Matrix: 218.0025.004
Features Matrix: 218.0030.004

SENSIBLE SOFTWARE

6619 Perham Dr
West Bloomfield MI 48033

(313) 399-8877

► Black's Law Dictionary

A WP and spelling checker package

Price \$99 purchase

Environment Computers: Apple IIe, Apple II+, Apple-compatible computers. Main storage: 48K bytes. Source language: Assembly.

Capabilities Used with other Random House Dictionary disks.

Description Black's Law Dictionary checks spelling for legal papers. The package includes all 20,000 words from Black's Law Dictionary and 15,000 commonly used words from the Random House Dictionary. This package must be used with either the vendor's Sensible Speller package (for Apple II) or Apple Speller III package (for Apple III).

Compatibility Matrix: 218.0025.004
Features Matrix: 218.0030.004

SENSIBLE SOFTWARE

6619 Perham Dr
West Bloomfield MI 48033

(313) 399-8877

► Bookends

A data base management package with WP utilities

Price \$124 purchase

Environment Computers: Apple IIe, Apple II+, Apple-compatible computers. Main storage: 48K bytes. Source language: Assembly.

Capabilities Holds up to 170 references in memory at one time. Chains references. Edits. Search routines. Sorts printouts in several ways and stores as text files.

Description Bookends helps users enter information about magazines, journals, newspapers, and books into a data base. The package searches for articles and prints user-defined bibliographies and footnotes. In addition, Bookends holds such information as author name, title, journal, volumes, page numbers, date, publisher, keywords, and an abstract that contains up to 720 characters. All other fields hold up to 255 characters each.

Compatibility Matrix: 218.0025.004
Features Matrix: 218.0030.004

SENSIBLE SOFTWARE

6619 Perham Dr
West Bloomfield MI 48033

(313) 399-8877

► Sensible Speller

A spelling checker package

Price \$125 purchase

Environment Computers: Apple IIe, Apple II+, Apple-compatible computers. Main storage: 48K bytes. Source language: Assembly.

Capabilities Includes 80,000 words. Accommodates 10,000 additional words. Uses words from the Concise Edition of the Random House Dictionary.

Description Sensible Speller checks spelling against an 80,000-word dictionary. The system highlights all suspected misspelled words as well as the three lines of text surrounding the word. Users then have the option to:

- Add the word to the dictionary
- Ignore the word
- Manually look up the correct spelling by searching dictionary disks
- Have the package suggest the correct spelling
- Mark the misspelled word for subsequent reference
- Replace the word with the correct spelling.

Compatibility Matrix: 218.0025.004
Features Matrix: 218.0030.004

SIERRA ON-LINESierra On-Line Bldg
Coarsegold CA 93614

(209) 683-6858

► HomeWord

A WP program for home applications

Price \$69 purchase**Environment** Computers: Apple II+ and Apple IIe; Commodore 64, and Atari microcomputers. Main storage: 48K bytes. Source language: not specified.**Capabilities** Menu driven. Text editing and printing. Page formatting. Displays 15 lines by 40 characters of text. Scrolls 60 lines of 80 characters.**Description** HomeWord is a basic WP program that uses icons (similar to those used by the Apple Lisa) to display tasks performed by the word processor. Users can select commands by using the computer's cursor control keys. HomeWord allows users to review the layout of an entire page by displaying pictorial representation of the page in the lower right-hand corner. Words are depicted as miniature lines, with spaces separating words. As changes are made to text, the pictorial representation changes to reflect the modified layout.**Compatibility Matrix:** 218.0025.005
Features Matrix: 218.0030.005**Compatibility Matrix:** 218.0025.005
Features Matrix: 218.0030.005**SIERRA ON-LINE**Sierra On-Line Bldg
Coarsegold CA 93614

(209) 683-6858

► THE DIC-TIO-NARY

A spelling checker program

Price \$100 purchase**Environment** Computer: Apple II, II+, and IIe. Main storage: 48K bytes. Source language: not specified.**Capabilities** Spelling verification. 28,000-word dictionary. Spelling correction. Word frequency analysis. Runs on single or double disk systems.**Description** In addition to checking documents for misspelled words, DIC-TIO-NARY recommends alternatives for any unrecognizable words. The program includes a 28,000-word dictionary. Up to 2,500 words can be added by the user to the main dictionary.**Compatibility Matrix:** 218.0025.005
Features Matrix: 218.0030.005**SIERRA ON-LINE**Sierra On-Line Bldg
Coarsegold CA 93614

(209) 683-6858

► Screenwriter II

A WP package

Price \$130 purchase**Environment** Computers: Apple II, II+, and IIe. Main storage: 48K bytes. Source language: Assembler.**Capabilities** Full-screen editing. Global search and replace. Block move and delete. Hyphenation. Index and form letter generation. Print spooling. Proportional spaced printing. Print formatting, including centering, boldfacing, and underlining. Assignable keys. Support of special functions (e.g., graphics printing).**Description** Screenwriter II edits and arranges text on screen exactly as it is to be printed, regardless of the format. Reusable formats can be saved on disk for easy recall.

Screenwriter II requires no modification to operate on the Apple computers even though the package offers upper- and lowercase characters and a 70-character-wide screen. This capability eliminates the need for an 80-character video interface card.

Screenwriter II offers extensive print-formatting features, including printer spooling when used with specified printer interface cards.

SILICON VALLEY1625 El Camino Real
Suite 4
Belmont CA 94002

(415) 593-4344

► WORD HANDLER II

A word processing system

Price \$60 purchase**Environment** Computers: Apple II or Apple II+. Main storage: 48K bytes. Source language: Assembler.**Capabilities** Lower- and uppercase entry. Underlining. Superscript, bold, and unlimited tabs. Even and normal justification. Direct to disk processing.**Description** WORD HANDLER II is a complete, interactive word processing system featuring full-line processing and 2-character formats. Hardware modifications are not required to run the system.**Compatibility Matrix:** 218.0025.005
Features Matrix: 218.0030.005

SIMUTEK COMPUTER PRODUCTS

4897 E Speedway Blvd
Tucson AZ 85712

(602) 323-9391

► Copy Art II

A word processing program with graphics

Price \$150 purchase

Environment Computers: Tandy TRS-80 Models I and III. Main storage: 48K bytes. Source language: BASIC.

Capabilities Global search and replace. Block moves. Line insert/delete. Reads directories and free space without leaving program. Chains files for printing. Two modes of graphics capabilities. Proportional justification.

Description Copy Art II is a program featuring a full range of word processing and editing capabilities as well as two graphic modes—one that draws billboard letters and one that permits the user to move a cursor, leaving a graphics trail behind. In the first mode letters that are input appear on the screen as an integral part of the text file; the user may copy these to disk or send them to the printer. In the second graphics mode, the user may box the text or draw circuit diagrams, bar charts, or logos.

Compatibility Matrix: 218.0025.005
Features Matrix: 218.0030.005

SOFSYS INC

4306 Upton Ave S
Minneapolis MN 55410

(612) 929-7104

► Executive Secretary

A word processing system for personal computers

Price \$250 purchase

Environment Computers: Apple II+, IBM Personal Computer, and Olivetti LI. Main storage: 48K bytes (Apple); 64K bytes (IBM and Olivetti). Source language: Assembly/BASIC.

Capabilities Features 12-character string search, 40-character replacement, alpha sorting, single-level math functions, paginate/repaginate, multiline headers, background processing, keyword indexing, and stored print formats. Optional 25,000-word spelling dictionary and multiterminal support.

Description Executive Secretary is a word processing system that uses data files generated by the personal computers it supports. It combines with VisiCalc to perform data processing operations.

Compatibility Matrix: 218.0025.005
Features Matrix: 218.0030.005

SOFTEST

555 Goffle Rd
Ridgewood NJ 07450

(201) 447-3901

► LEX-86 and LEX-68

WP packages for microcomputers

Price \$750 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT; any running under MS-DOS, CP/M, or Unix. Main storage: 32K bytes. Source language: D.

Capabilities Full-screen editing. Merges mailing list with text. Cut and paste. Stores and retrieves paragraphs and phrases. Right-hand margin justification and tabs. Search and replace. Hyphenation. Vertical spacing in 1/4-space increments. User-defined keys. Headers and footers on left and right side. Scrolls horizontally to 132 character positions. Underlining and highlighting. Document merging.

Description LEX-86 and LEX-68 are microcomputer implementations of the EEC Systems LEX-11 WP system for Digital Equipment mini- and microcomputers. The programs work the same on any system, regardless of system size or operating system. A 100,000-word spelling dictionary, merged-mailing system, and four-function calculator are included with the programs.

Compatibility Matrix: 218.0025.005
Features Matrix: 218.0030.005

SOFTWARE DYNAMICS

2111 W Crescent
Suite G
Anaheim CA 92801

(714) 635-4760

► SEDIT

A full-screen text editor

Price \$115 purchase

Environment Computers: microcomputers based on Motorola MC 6800 or MC 6809 microprocessors, including the Tandy Color Computer, Smoke Signal Broadcasting Chieftain, PsiTech GT, and Motorola EXORZISOR. Main storage: 32K bytes. Source language: Assembler.

Capabilities Full-screen editing. Cursor movement. Handles large files. Word wraparound. Right margin justification. Block move, copy, and delete.

Description SEDIT is a text editor and preprocessor for use with Software Dynamics' Type text formatter. SEDIT runs under SDOS in either single- or multiuser versions.

Compatibility Matrix: 218.0025.005
Features Matrix: 218.0030.005



SOFTWARE DYNAMICS

2111 W Crescent
Suite G
Anaheim CA 92801

(714) 635-4760

► Type

A document formatting program

Price \$140 purchase

Environment Computers: Tandy Color Computer, Smoke Signal Broadcasting Chieftain, PsiTech GT, Motorola EXORSIZOR and other microcomputers based on the Motorola MC 6800 or MC 6809 microprocessor. Main storage: 32K bytes. Source language: Assembler.

Capabilities Features paginate/repaginate, full ASCII character set, centering, underlining, headers/footers, left/right margin justification, and multiterminal support. Selected output by page number. Merged-mailing manager.

Description Type is a document processing system that uses embedded commands to format raw text files for printed output. In addition to justifying or centering text, Type also generates keyword indexes and document tables of contents.

Compatibility Matrix: 218.0025.005
Features Matrix: 218.0030.005

SOFTWARE PUBLISHING

1901 Landings Dr
Mountain View CA 94043

(415) 962-8910

► PFS:WRITE

A WP package for the IBM Personal Computer and Apple IIe

Price Purchase: \$140 (IBM Personal Computer), \$125 (Apple IIe)

Environment Computers: IBM Personal Computer and Apple IIe. Main storage: not specified. Source language: not specified.

Capabilities Replaces words. Rearranges sentences and paragraphs. Defines pages on the screen. Includes help screens.

Description PFS:WRITE includes basic WP functions as well as additional capabilities. Documents are printed exactly as displayed on screen. A ruler at the bottom of the screen tells what column the cursor is in and where the tab and margin settings are located. A status line indicates the name of the document being edited, what line the cursor is on, how full the document is, and what function is in progress. The manual includes a quick-reference guide and a function key template.

PFS:WRITE shares data with other software programs. PFS:FILE includes data files from which users can generate personalized form letters. PFS:REPORT incorpo-

rates data tables into documents. PFS:GRAPH generates bar, line, and pie charts. Users can also incorporate VisiCalc spreadsheets as well as text from other software programs.

Compatibility Matrix: 218.0025.005
Features Matrix: 218.0030.005

SOFTWORD SYSTEMS

52 Oakland Ave N
East Hartford CT 06108

(203) 522-2116

► MultiMate

A WP package for the IBM Personal Computer

Price \$495 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, and compatible systems. Main storage: 256K bytes. Source language: not specified.

Capabilities Cursor positioning, including previous word, set place mark, scroll cursor left and right, and search. Editing functions, including page number, underline, document merge, headers, footers, and repaginate. Sub- and superscript. Background, draft, and enhanced print. Incremental spacing. Variable print pitch. Right margin justification. Column calculations, including horizontal and vertical addition. Document merge. Help screens. Highlighting by character, word, line, sentence, paragraph, page, and cursor-positioning arrows. Key-defined macros allow users to combine editing commands for later execution.

Description The MultiMate command structure emulates a dedicated word processor. In addition to its powerful editing features, the program includes several advanced utilities. The merged-mailing manager allows users to generate mass mailings that combine a form letter with a list of names and addresses. MultiMate also includes an 89,000-word dictionary. Other utilities include a file conversion program for converting ASCII files to MultiMate format, a printer action table that allows users to adapt MultiMate to a variety of printers, and a document recovery utility that enables recovery of lost data on diskettes.

Compatibility Matrix: 218.0025.005
Features Matrix: 218.0030.005

THE SOFTWARE TOOLWORKS

15233 Ventura Blvd
Sherman Oaks CA 91403

(213) 906-0414

► PIE 1.5c

A text editor for Zenith computers

Price \$30 purchase

Environment Computers: Zenith Z-89 and Z-90 running under CP/M. Main storage: 32K bytes (48K bytes recommended). Source language: BASIC.

Capabilities Selective character search and replace. Word wraparound. Memory remnant indicator. Line number display. Full scroll at beginning or end of file. Edit save and file rename functions.

Description PIE 1.5c is a compact, full-screen text editor that features a programmed sequence of operations and functions. The system is human engineered for the novice operator.

Compatibility Matrix: 218.0025.005

Features Matrix: 218.0030.005

THE SOFTWARE TOOLWORKS

15233 Ventura Blvd
Sherman Oaks CA 91403

(213) 906-0414

► Spell

A spelling checker program

Price \$50 purchase

Environment Computers: Zenith microcomputers and others running under CP/M. Main storage: 48K bytes. Source language: not specified.

Capabilities Displays words in text. Adds new words to dictionary. Looks up approximately 4,000 words per minute. Allows for soft hyphens.

Description Spell is a spelling checker allowing the user to expand the existing dictionary or to create new ones directly through lists generated as text files. The effective size of the dictionaries is increased as the program strips words of common prefixes, suffixes, and plurals before it looks them up. The user may view each word, mark the word in the text, ignore it, or add it to the dictionary. Once the user creates a new list, the original file is kept as a backup and is not overwritten. Spell is compatible with a variety of programs, such as MicroPro WordStar, Lexissoft Spellbinder, Peachtree PeachText, and Software Toolworks PIE.

Compatibility Matrix: 218.0025.005

Features Matrix: 218.0030.005

STRUCTURED SYSTEMS GROUP

5204 Claremont Ave
Oakland CA 94618

(415) 547-1567

► NAD Name and Address

A mailing list manager with sort utility

Price \$175 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, and compatible systems; any running under CP/M, MP/M, CP/M-86, or MP/M-86. Main storage: 56K bytes. Source language: CBASIC.

Capabilities Mail merging. Records include up to 128 characters. Predefined field names and lengths. Optional comment field. Handles 9-character zip and foreign postal codes. Menu driven. Sorts on any field.

Description The NAD Name and Address program prints mailing labels and, when used with the vendor's Word Right word processor, merges selected addresses with form letters. Customer, vendor, and personnel files from optional accounting packages can be used with NAD Name and Address to sort and print mailing labels.

The Sort and selection procedures of the Q-sort utility are supported in any field, including the optional 127-character comment field. Names can be entered on a first-name; last-name basis and then sorted by last name by using the name inversion feature.

Address file size is limited only by disk storage capacity.

Compatibility Matrix: 218.0025.005

Features Matrix: 218.0030.005



STRUCTURED SYSTEMS GROUP

5204 Claremont Ave
Oakland CA 94618

(415) 547-1567

► Word Right

A WP package with a spelling dictionary

Price \$495 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT, and compatible systems; any running under CP/M, MP/M, CP/M-86, or MP/M-86. Main storage: 56K bytes. Source language: CBASIC.

Capabilities Menu driven with help key. Automatic word wraparound. Document prints as displayed on screen. Proportional spacing. Includes 20,000-word dictionary. Block move and save. Soft hyphenation with hot zone. Tabbing. Indentation. Merged-mailing manager.

Description When used with other Structured Systems Group programs such as NAD or the accounting series, Word Right can generate mail-merged form letters or edit spreadsheets.

The spelling checker marks misspelled words by referencing a 20,000-word dictionary. New words can be added to the dictionary.

Compatibility Matrix: 218.0025.005

Features Matrix: 218.0030.005

SUPERSOFT

PO Box 1628
Champaign IL 61820

(217) 359-2112

► CORRECTOR

An automated spelling correction system

Price \$250 purchase

Environment Computers: any Zilog Z80-based microcomputer running under CP/M. Main storage: 48K bytes. Source language: Assembler.

Capabilities Uses command, checking, and correction level editing. Takes less than 10 minutes to learn. Cursor addressing divides the screen into separate displays for independent erase, create, and update functions. Displays well-defined windows of data. Instant exit from system by pressing Escape key.

Description CORRECTOR is an automated spelling correction system that analyzes misspelled words and suggests correct spellings from its 20,000-word dictionary. The system is compatible with any WP program using ASCII format files and can easily accommodate user-defined dictionaries or additions to CORRECTOR's dictionary.

Compatibility Matrix: 218.0025.005

Features Matrix: 218.0030.005

TANDY

1800 One Tandy Center
Fort Worth TX 76102

(817) 390-3011

► SCRIPSIT

A word processing system

Price \$399 purchase

Environment Computers: Tandy TRS-80 Models II and 12. Main storage: 64K bytes. Source language: not specified.

Capabilities Global search and replace. Operator tutorials. Diacritical marks for foreign languages. Word wraparound. Supports 156-character lines. Horizontal scrolling. Super- and subscripts. Centering. Complete menu display. Cursor control. Pagination.

Description SCRIPSIT is a word processing system with a screen editor for copy editing before printing. It features an "un-edit" function that cancels alterations and recalls a page as it was before editing. The system can create up to 20 user-definable keys that allow the user to add commonly used phrases to the text. A cut-and-paste function is featured. SCRIPSIT is compatible with other programs, including Profile II, an electronic filing system that searches files according to a variety of user criteria. The Spelling and Hyphenation Dictionary complements the SCRIPSIT package: this optional program proofreads text from a master list of over 100,000 words and includes a dictionary specific to user terminology. Other options include a pen-plotter driver, a multicolumn editing utility, and a communications program for transmitting SCRIPSIT documents through a modem.

Compatibility Matrix: 218.0025.005

Features Matrix: 218.0030.005

TANDY

1 Tandy Center
Fort Worth TX 76102

(817) 390-3011

► SCRIPSIT Spelling Dictionary

A general-purpose spelling checker package

Price Purchase: \$150 (Tandy TRS-80 Models I and III); \$199 (Models II and 12)

Environment Computers: Tandy TRS-80 Models I, II, III, and 12. Main storage: 48K bytes. Source language: not specified.

Capabilities Includes 100,000-word dictionary. Lists number of words checked. Displays unrecognized words in context. Retains original document. Outputs copy of original with changes. Can check files larger than available main memory.

Description The SCRIPSIT Spelling Dictionary can be interfaced with the Tandy SCRIPSIT word processing package or function as a standalone spelling checker for ASCII files. The program allows 2,047 words to be added to the dictionary.

Compatibility Matrix: 218.0025.005
Features Matrix: 218.0030.005

TANDY

1800 One Tandy Ctr
Fort Worth TX 76102

(817) 390-3011

► SuperSCRIPTSIT

A WP program

Price \$199 purchase

Environment Computers: Tandy Radio Shack TRS-80 Models I and III. Main storage: 48K bytes. Source language: not specified.

Capabilities Proportionally spaced printing. Vertical spacing in half-space increments. Automatic pagination. User-defined print codes and paragraph formats. Underline, double underline, boldface, multiple columns, and sub- and superscripts.

Description SuperSCRIPTSIT features 10 user-defined keys for storing common words or phrases. A Help function provides users with the codes required to execute program systems. Additional aids include audio cassettes, a training manual, reference manuals, and a reference card.

Compatibility Matrix: 218.0025.005
Features Matrix: 218.0030.005

VECTOR GRAPHIC

500 N Ventu Park Rd
Thousand Oaks CA 91320

(805) 499-5831

► MEMORITE III

A word and list processing package

Price \$450 purchase

Environment Computers: any Vector Graphic computer. Main storage: not specified. Source language: not specified.

Capabilities 30,000-word dictionary. Automatic indenting, footnoting, centering, underlining, pagination. Super- and subscripts. Copies, moves, and deletes words, sentences, and entire sections. Appends one document to another. Printing directions stored with document. Prints mailing labels and lists.

Description MEMORITE III is a word processing system that includes a mailing list manager, spelling dictionary, and phrase library. A variety of cut-and-paste functions allow the user to assemble and edit documents. MEMORITE III can add new words to its 30,000-word dictionary, thereby creating a library of correctly spelled words, abbreviations, and proper names to match the user's business vocabulary. The system's Mailing List program can merge information into a standard letter or print a personalized letter for all or selected members of any mailing list. This feature also permits manual keyboard entry of variable information within a standard letter.

Compatibility Matrix: 218.0025.005
Features Matrix: 218.0030.005



VISICORP

2895 Zanker Rd
San Jose CA 95134

(408) 946-9000

► VisiWord Plus

A WP system with spelling checker

Price \$375 purchase

Environment Computers: IBM Personal Computer and Personal Computer XT; Texas Instruments Professional Computer. Main storage: 64K bytes. Source language: C.

Capabilities Full-screen document-oriented editing. Displays on-screen margin ruler with tab stops. Split-screen window allows editing of two parts of one document or two separate documents. Links smaller documents to form larger document. Automatic word wraparound. Global search and replace. Block move, copy, and delete. Undo command restores deleted text. Right margin justification. Headers and footers with or without page numbering. Boldfaced and underlined printing. Super- and sub-scripting. Centering. Includes VisiSpell spelling checker with 100,000-word dictionary.

Description VisiWord Plus is a function-key-driven WP program that offers full cursor control, split-screen editing, and flexible text formatting. On-screen help is available to the user at any point in the program. A QuickStart tutorial provides first-time users with step-by-step instructions on program operations.

VisiWord Plus can incorporate reports from VisiCalc into edited text, or it can merge names and addresses from VisiFile into a prepared letter.

Compatibility Matrix: 218.0025.005
Features Matrix: 218.0030.005

WESTERN SOFTWARE DEVELOPMENT

PO Box 953
Woodland Park CO 80863

(303) 687-2517

► SPELLPACK

A spelling checker for UCSD p-System text files

Price \$125 purchase

Environment Computers: IBM Personal Computer, Sage II and IV, and other systems based on UCSD p-System. Main storage: 128K bytes. Source language: Pascal.

Capabilities 50,000-word main dictionary. Ignores special characters inserted by WP package. Allows user to develop and maintain auxiliary dictionaries. Displays full line of text containing the possibly misspelled word. Prints user-specified sections of the main dictionary. Places correctly spelled words in original or new file. Totals the numbers of lines and words processed.

Description SPELLPACK features a 50,000-word main dictionary. Auxiliary dictionaries can be created, each containing a maximum of 450 to 1,340 words (depending on the computer). Correctly spelled words not

included in the main dictionary are either added to an auxiliary dictionary or temporarily stored in memory until the system is shut off.

Compatibility Matrix: 218.0025.005
Features Matrix: 218.0030.005

WICAT SYSTEMS

PO Box 539
1875 State St
Orem UT 84057

(801) 224-6400

► Word Processor

A word processing package

Price Vendor declined to provide

Environment Computers: WICAT. Main storage: not specified. Source language: not specified.

Capabilities File creation. Maintenance and manipulation. Printing and editing. Scrolling. Word wraparound. Global search and replace. Checks spelling. Appends documents. Activity scheduling.

Description Word Processor is an interactive word processing package consisting of several programs. It includes a text processor, file manager, time management system, and administrative aid. The word processing function contains column match and decimal alignment as well as scrolling and automatic realignment. The package provides a type style change capability and allows the user to copy and append documents. An Activities Autoscheduler package and electronic mail are also features of the Word Processor.

Compatibility Matrix: 218.0025.005
Features Matrix: 218.0030.005

ZENITH DATA SYSTEMS

1000 Milwaukee Ave
Glenview IL 60025

(312) 391-8181

► Magic Spell

A spelling checker for Zenith microcomputers

Price \$295 purchase

Environment Computers: Zenith Z-90 and Z-100. Main storage: not specified. Source language: not specified.

Capabilities Menu driven with built-in help instructions. Highlights misspelled words. Additional words can be added to 20,000-word dictionary.

Description Magic Spell, a spelling checker package designed to work with the Magic Wand WP program, simplifies proofreading. The program allows the dictionary to be expanded to the full capacity of the diskette.

Magic Spell is available on 5.25- or 8-inch diskettes for the Zenith Z-90 and Z-100 running under CP/M.

Compatibility Matrix: 218.0025.005
Features Matrix: 218.0030.005

WORD PROCESSING SOFTWARE

Specifications Chart Guide

Word processing enables users to create and edit textual information on some form of magnetic medium and to further manipulate that information before it is committed to final copy. Users can take advantage of two distinct approaches to word processing: dedicated word processing systems (which may also include limited data processing capabilities), and traditional data processing systems augmented with word processing software. In the latter case, word processing software packages offer a cost-effective method of implementing this technology without purchasing or leasing additional equipment.

The associated specifications charts feature word processing software packages for microcomputers. The following sections briefly explain the entries on the charts so that the information can be used to compare the various packages on a feature-by-feature basis and to select a package that best meets individual requirements.

VENDOR/PACKAGE

These entries identify the software vendor or publisher and names of applicable word processing software packages.

REQUIREMENTS

This section describes the operating environment required to run the word processing software package.

- **Processor/Computer Model**—This entry specifies the microprocessor (i.e., Intel 80186 or Motorola 68000) or specific computer model that supports the software package.
- **RAM**—Indicates the random-access memory (RAM) requirements in kilobytes (KB) necessary to run the software package.
- **Peripherals**—This entry lists the peripheral devices including CRT displays, printers, and storage devices, required by the software.
- **Operating System**—The operating system needed to support the word processing software is specified here. Commercially available software packages frequently support an industry-standard operating system (e.g., CP/M from Digital Research Corporation or MS-DOS from Microsoft Corporation). The use of an industry-standard operating system typically indicates widespread availability and compatibility with other, related software packages.
- **Source Language**—This entry specifies the programming language used to write the word processing software. Some languages (e.g., BASIC) are more easily modified than others and, frequently, a compiler or interpreter must be installed on the computer system in order to run a specialized language.

GENERAL FEATURES

- **Index Generation**—Expressed here is the availability and maintenance of an automatic index of documents on disk or diskette. This feature is extremely important for multiple user systems that share file access.
- **Stored Print Formats**—This entry notes the ability to store and print user-specified document formats. This feature can greatly increase operator productivity by reducing repetitive format entry and manipulation.
- **File Document Security**—The availability and type of file access security (i.e., user password or department coding) are indicated here.
- **Background Processing**—This entry describes the ability to perform such operations as sorting or printing concurrently with other operations such as document creation or revision.
- **Multiple Workstation Support**—This entry indicates whether several workstations can share central storage facilities and/or system peripherals. If multiple workstations share files, the software must provide some access control and file security.

EDITING/DISPLAY FEATURES

This section provides information on editing and display capabilities featured with the software package and identifies them as Standard (Std), Optional (Opt.) or Not available.

- **Orientation**—This entry indicates whether storage and retrieval of information is by page, document, file, or display screen.
- **Global Search and Replace**—This entry states whether the ability to search for a specific word or phrase and replace that word or phrase is automatic throughout the document. It also specifies the maximum character string that can be searched.
- **Records Processing**—This entry indicates whether the package provides the ability to merge a form with selected records from a previously prepared list according to user specifications (as in the creation of personalized form letters).
- **Alphanumeric Select/Sort**—The types of file sorting and the selection capability are provided with the software, and the number of sorting levels available are noted.
- **Math Functions**—This entry describes the mathematics capabilities of the package, typically the four basic mathematical operations. These functions are sometimes augmented with percentage, exponentiation, accumulators, and registers.
- **Paginate/Repaginate**—This entry specifies whether the ability to paginate a document is automatic (i.e., the user specifies the number of lines per page) or operator controlled and if the process can be performed during text

entry or prior to printout after the document is completely keyed.

- **Programmable Keys**—Described here is the ability to store a series of keystrokes or functions under one key. This feature can save operator time and minimize repetitive typing by implementing commands or functions with a single keystroke.
- **Operator Help**—The availability of a command to access a system or of operating information directly from the keyboard is indicated.
- **Windows**—This entry reports the ability to split the display screen and concurrently display portions of separate documents. It also indicates the number of windows that can be displayed simultaneously.
- **Spelling Dictionary**—This entry indicates the availability of a spelling verification aid, either as a standard component of the package or as an extra cost option.
- **Word Wraparound**—This entry notes the ability to automatically continue to the next text line those words that exceed the number of characters available on the current display line.
- **Centering**—This entry states whether titles or phrases can be automatically centered and viewed on the display.
- **Underline**—This entry indicates whether underlining or underscoring is available on the display as well as the printer.
- **Boldface**—This entry states whether boldface text highlighting is available on the display as well as the printer.
- **Headers/Footers**—This entry notes whether the package automatically displays and prints user-specified headers and footers on appropriate pages within a document. This feature is closely related to the software's ability to paginate automatically.
- **Menu Driven**—Whether system commands are displayed on a menu for operator selection is noted here. This feature aids beginners but may become unnecessary for experienced operators.
- **Graphics Display**—The type of graphics display capability (i.e., line charts, bar graphs) provided by the software.
- **Proportional Spacing**—This entry indicates whether proportionally spaced characters can be displayed and printed.
- **Foreign Languages**—Which (if any) languages other than English that can be displayed and printed are indicated.
- **Margin Justification**—This entry states whether right and left margins can be automatically aligned on the display and printer.

- **Formula Printing**—This entry notes whether the display and printing of sub- and superscripts and various scientific symbols is possible.

DELIVERY/INSTALLED BASE

This entry indicates the month and year of first delivery of the software package. The installed base refers to the number of packages that the software vendor claims to have sold, although there are no specific figures to indicate how many of the packages are actually in use at this time. Typically, a large installed base implies widespread acceptance of the package and may indicate the availability of such independent support mechanisms as user support groups and third-party training programs.

PRICING INFORMATION

Included in this section are the purchase or one-time license fees associated with the package and information pertaining to annual support fees (if applicable).

- **Multiple-Site Licenses**—This entry indicates the availability and cost of multiple-site licensing for large-scale users. This form of licensing is becoming quite popular for large organizations that have a need for multiple copies of the same software package.

VENDOR SUPPORT

- **Training**—This entry indicates the training sessions and materials supplied by the vendor with the standard software package and shows any applicable charges involved.
- **Documentation**—Listed here is the literature or manuals supplied with the software package or offered by the software vendor at additional cost.
- **Newsletter**—This entry specifies the availability, frequency and cost of a vendor-provided newsletter for user support.
- **Program Updates**—This entry indicates whether program updates are provided by the software vendor without charge, as part of the annual support fees, or at additional charge.
- **Telephone Support**—Specified here is the availability of telephone support, such as a toll-free number and indicates that number where applicable.

SPECIFICATIONS CHART

Word Processing/Text Editing

218.0045.001

Vendor	Artsci, Inc.	Artsci, Inc.	Astro-Star Enterprises
Package (name)	Magic Window II	Magic Window IIe	Letter-Writer
Requirements			
Processor/Computer	Apple II, II +, IIe, IIc	Apple IIe, IIc	IBM PCs
Model			
RAM (KB)	48	64	64
Storage Devices	Single diskette drive	Single diskette drive	Single 5.25 in. diskette drive
Operating System	DOS 3.3	DOS 3.3	MS-DOS
Source Language	Assembler	Assembler	Machine code
General Features			
Index Generation	Not avail.	Not avail.	Not avail.
Stored Print Formats	Std	Std	Std
File/Document Security	Not avail.	Not avail.	Not avail.
Background Processing	Not avail.	Not avail.	Not avail.
Multiple Terminal Support	Std	Std	Not avail.
Editing/Display Features			
Orientation	Std (file only)	Std	Std
Global Search & Replace	Std	Std	Std
Records Processing	Std	Std	Std
Alphanumeric Select/Sort	Not avail.	Not avail.	Not avail.
Math Functions	Not avail.	Not avail.	Not avail.
Paginate/Repaginate	Std	Not avail.	Not avail.
Programmable Keys	Not avail.	Not avail.	Std
Operator Help	Not avail.	Not avail.	Std
Windows	Not avail.	Not avail.	Not avail.
Spelling Dictionary	Opt. Magic Words \$69.95	Opt. Magic Words \$69.95	Not avail.
Word Wraparound	Std	Std	Std
Centering	Std	Std	Std
Underline	Std	Std	Std
Boldface	Std	Std	Std
Headers/Footers	Std	Std	Std
Menu Driven	Std	Std	Std
Graphics Display	Not avail.	Not avail.	Not avail.
Proportional Spacing	Std	Std	Not avail.
Foreign Languages	Std	Std	Not avail.
Margin Justification	Std	Std	Std
Formula Printing	Std	Std	Std
Delivery Media			
First Delivery (Mo./Yr.)	1/81	1/84	8/80
Installed Base (# of)	20,000 +	40,000 +	1,000 +
Pricing Information			
Purchase or One-Time License Fee (\$ amount)	\$149.95	\$149.95	\$57.99
Annual Support Fee (\$ amount)	NA	NA	—
Multiple Site License	Automatic	Automatic	NA
Vendor Support			
Training	Through dealer	Through dealer	Provided through dealer
Documentation	Tutorial	Tutorial	Manual, std
Newsletter	Provided through dealer	Provided through dealer	Not avail.
Program Updates	User modified by newsletter	User modified by newsletter	Not avail.
Telephone Support	Yes	Yes	Yes
Comments	—	—	Avail. on 3-mo. trial basis at no charge

Notes:
— Information unavailable at press time
NA Not applicable



Vendor	Beaman Porter, Inc.	Beaman Porter	Bruce & James
Package (name)	PowerPen	PowerText	Wordvision
Requirements			
Processor/Computer	IBM PCjr	IBM PC Series, Apple II family	Intel 8088/IBM PC Series & compatibles
Model			
RAM (KB)	128	128 (IBM), 64 (Apple)	96
Storage Devices	Dual 5.25 in. diskette drives	Dual diskette drives	Single diskette drive
Operating System	P-System	P-System	MS/PC DOS
Source Language	Pascal	Pascal	Assembly
General Features			
Index Generation	Not avail.	Not avail.	Not avail.
Stored Print Formats	Std	Std	Std
File/Document Security	Std	Std	Not avail.
Background Processing	Not avail.	Not avail.	Not avail.
Multiple Terminal Support	Not avail.	Not avail.	Not avail.
Editing/Display Features			
Orientation	Std	Std	Std
Global Search & Replace	Std	Std	Std
Records Processing	Std	Std	Std
Alphanumeric Select/Sort	Std	Std	Std
Math Functions	—	Not avail.	—
Paginate/Repaginate	Std	Std	—
Programmable Keys	—	Not avail.	—
Operator Help	—	Not avail.	—
Windows	—	Not avail.	—
Spelling Dictionary	Std	Std	Opt. Spell Corrector \$49.95
Word Wraparound	Std	Std	Std
Centering	Std	Std	Std
Underline	Std	Std	Std
Boldface	Std	Std	Std
Headers/Footers	Std	Std	Std
Menu Driven	Std	Std	Std
Graphics Display	Not avail.	Not avail.	Not avail.
Proportional Spacing	Std	Std	Not avail.
Foreign Languages	Chars only	Chars only	Not avail.
Margin Justification	Std	Std	Std
Formula Printing	Std	Std	Not avail.
Delivery Media			
First Delivery (Mo./Yr.)	8/84	3/81	12/83
Installed Base (# of)	1,000	4,000	12,000
Pricing Information			
Purchase or One-Time	\$139.95	\$299 (Apple), \$399 (IBM)	\$49.95
License Fee (\$ amount)	NA	Not avail.	NA
Annual Support Fee (\$ amount)	NA	Not avail.	NA
Multiple Site License	—	Not avail.	10 copies + \$29.95
Vendor Support			
Training	Through dealer	Through dealer	Through dealer
Documentation	User's Manual	User's Manual	Manual
Newsletter	Provided through dealer	Provided through dealer	Yes, occasional
Program Updates	As needed	Provided through dealer	Provided through dealer
Telephone Support	Yes (800) 431-0007	Yes (800) 431-0007	Yes (415) 775-8400
Comments	Designed for scholastic assigns., resumes, letters and outlines.	Incl. footnotes, paragraph organization.	30-day money-back guarantee.

Notes:

— Information unavailable at press time
 NA Not applicable



Vendor	COMPLETE Computer Systems	Computer Assoc. MicroProd. Div (Formerly, Sorcim/IUS Micro Software) EasyWriter I	Computer Assoc. MicroProd. Div (Formerly, Sorcim/IUS Micro Software) EasyWriter II
Package (name)	CREATE		
Requirements			
Processor/Computer Model	Data General Nova & Micro Eclipse	IBM PC Series & compatibles; Texas Instr. Professional	IBM PC Series & compatibles; Texas Instr. Professional; AT&T PC 6300
RAM (KB)	64	128	192
Storage Devices	Single hard disk	—	—
Operating System	RDOS, AOS	MS/PC DOS	MS/PC DOS 2.0, 2.1, 3.0
Source Language	Extended BASIC	—	—
General Features			
Index Generation	Std	Not avail.	Std
Stored Print Formats	Std	Std	Std
File/Document Security	Password	Not avail.	Not avail.
Background Processing	Not avail.	Std	Std
Multiple Terminal Support	Std	Std	Not avail.
Editing/Display Features			
Orientation	Std	Std	Std
Global Search & Replace	Std	Std	Std
Records Processing	Std	Std	Std
Alphanumeric Select/Sort	Std	Std	Std
Math Functions	Not avail.	Not avail.	Not avail.
Paginate/Repaginate	Paginate only	Std	Std
Programmable Keys		Not avail.	Std
Operator Help	Not avail.	Std (on screen)	Std (on screen)
Windows	Not avail.	Std	Std
Spelling Dictionary	Not avail.	89,000 words	89,000 words
Word Wraparound	Std	Std	Std
Centering	Std	Std	Std
Underline	Opt.	Std	Std
Boldface	Opt.	Std	Std
Headers/Footers	Opt.	Std	Std
Menu Driven	Std	Std	Std
Graphics Display	Not avail.	Not avail.	Std (line drawing)
Proportional Spacing	Opt.	Std	Std
Foreign Languages	Not avail.	Not avail.	Not avail.
Margin Justification	Opt.	Std	Std
Formula Printing	Not avail.	Not avail.	Not avail.
Delivery Media			
First Delivery (Mo./Yr.)	10/76	4/82	8/84
Installed Base (# of)	100 +	—	—
Pricing Information			
Purchase or One-Time License Fee (\$ amount)	\$1,500-\$3,500	\$195	\$395
Annual Support Fee (\$ amount)	\$900 after 1st year	Std, no charge	—
Multiple Site License	Contact dealer	Avail. upon request	—
Vendor Support			
Training	Through dealer	Through dealer	Through dealer
Documentation	User's Manual	User's manual	Users manual, training diskette
Newsletter	Provided through dealer	Through dealer	Through dealer
Program Updates	Provided through dealer	Through dealer	Through dealer
Telephone Support	Yes	Std	Std
Comments	Designed specif. for high volume mailing.	Undelete and stop print features std.	Auto printer selection.

Notes:

— Information unavailable at press time
 NA Not applicable



Vendor	Computer Assoc. MicroProd. Div (Formerly, Sorcim/IUS Micro Software)	Concept Omega Corp.	Data Processing Design
Package (name)	SuperWriter	Word Concept	Word-11
Requirements			
Processor/Computer Model	IBM PC Series & compatibles; AT&T PC 6300; NEC APC III; Texas Instr. Professional	Intel 80186; Motorola 6800; Zilog Z80A/any PC supporting Business BASIC	Pro-350, 380
RAM (KB)	53	32	160
Storage Devices	—	—	—
Operating System	MS/PC DOS, CP/M, CP/M-86, concurrent CP/M-86 Assembler	Unix, Xenix, Thoroughbred OS SMC Business Basic	POS (Professional Operating System) Macro-11
Source Language			
General Features			
Index Generation	Not avail.	Std	Std
Stored Print Formats	Std	Not avail.	Std
File/Document Security	Not avail.	Std	Std
Background Processing	Std	Not avail.	Std
Multiple Terminal Support	Std	Std	Not avail.
Editing/Display Features			
Orientation	Std	Std	Std
Global Search & Replace	Std	Std	Std
Records Processing	Std	Opt. Mail Concept \$395	Std
Alphanumeric Select/Sort	Std	Not avail.	Not avail.
Math Functions	—	Not avail.	Not avail.
Paginate/Repaginate	Std	Not avail.	Not avail.
Programmable Keys	—	Not avail.	Not avail.
Operator Help	Std	Std, on-line	Not avail.
Windows	Std	Not avail.	Not avail.
Spelling Dictionary	Std	Opt. Spell Concept \$495	Std
Word Wraparound	Std	Std	Std
Centering	Std	Std	Std
Underline	Std	Std	Std
Boldface	Std	Std	Std
Headers/Footers	Std	Std	Std
Menu Driven	Std	Std	Std
Graphics Display	Not avail.	Opt. bus. graphics	Not avail.
Proportional Spacing	Std	Std	Std
Foreign Languages	—	French, German, & Spanish	Std
Margin Justification	Std	Std	Std
Formula Printing	Not avail.	Not avail.	Not avail.
Delivery Media			
First Delivery (Mo./Yr.)	1/82	2/83	6/76
Installed Base (# of)	—	1,000	200
Pricing Information			
Purchase or One-Time License Fee (\$ amount)	\$295	\$595	\$795
Annual Support Fee (\$ amount)	No charge	NA	\$200
Multiple Site License	Avail. upon request	—	\$635-\$715
Vendor Support			
Training	Through dealer	Through dealer	Through dealer
Documentation	User's Guide	Manual	Training handbook
Newsletter	Provided through dealer	Quarterly	Monthly
Program Updates	As needed	As needed	\$200-\$400
Telephone Support	Yes (409) 942-1727	Yes	First 30 days no charge
Comments	Supports variety of printers incl. speciality printers	—	Opt. Crossword \$2,300

Notes:

— Information unavailable at press time
NA Not applicable



Vendor	Economic Insights	Economic Insights	Emerging Technology Consultants
Package (name)	Techni-Word	World Writer	The Professional Writer's Package
Requirements			
Processor/Computer Model	IBM PCs & compatibles	IBM PCs & compatibles	IBM PC & compatibles, Texas Instr. Professional, AT&T 7300 UNIX PC
RAM (KB)	128	128	256
Storage Devices	Dual double-sided diskette drives or hard disk	Dual double-sided diskette drives or hard disk	Diskette drive
Operating System	MS-PC DOS	MC/PC DOS	MS DOS 2.1-3.0, UNIX System V
Source Language	C	C	Pascal, C
General Features			
Index Generation	Not avail.	Not avail.	Std w/T of C
Stored Print Formats	Std	Std	Std
File/Document Security	Not avail.	Not avail.	Not avail.
Background Processing	Not avail.	Not avail.	Std
Multiple Terminal Support	Std	Std	Std
Editing/Display Features			
Orientation	Std	Std	Std
Global Search & Replace	Std	Std	Std
Records Processing	—	—	Std
Alphanumeric Select/Sort	—	Std	Std
Math Functions	—	—	Std
Paginate/Repaginate	Std	Std	Std
Programmable Keys	—	—	Std
Operator Help	Std	—	On-line tutorial
Windows	—	—	Std
Spelling Dictionary	Std	Std	Std
Word Wraparound	Std	Std	Spelling Checker
Centering	Std	Std	Std
Underline	Std	Std	Std
Boldface	Std	Std	Std
Headers/Footers	Std	Std	Std
Menu Driven	Std	Std	Std
Graphics Display	Std	Std	Not avail.
Proportional Spacing	Std	Std	Std
Foreign Languages	Std	Std	Std
Margin Justification	Std	Std	Std
Formula Printing	Std	Std	Std
Delivery Media			
First Delivery (Mo./Yr.)	1/83	1/83	6/82
Installed Base (# of)	—	—	—
Pricing Information			
Purchase or One-Time License Fee (\$ amount)	\$450	Various; \$450-\$1,295	\$490
Annual Support Fee (\$ amount)	NA	NA	NA
Multiple Site License	Std	Avail. on request	Negotiable
Vendor Support			
Training	Through dealer	Through dealer	Consulting basis
Documentation	User's Manual	User's guide	Manual
Newsletter	—	Not avail.	Quarterly
Program Updates	Through dealer	Through dealer	Every 6 mos.
Telephone Support	Yes	Yes	Std, no add'l fee
Comments	Accented and special characters display on screen	Opt. on-screen translator, phrase look-up, and insertion	—

Notes:

— Information unavailable at press time
 NA Not applicable



Vendor	Innovative Software, Inc.	ITsoftware	JET Software
Package (name)	Smart Word Processor	WritIT	The WORKS
Requirements			
Processor/Computer	Intel 8086, 8088, 8086	IBM PC XT AT & compatibles	Intel 8088, 8086;
Model			Motorola 68000
RAM (KB)	256	192 (DOS 1.1) 256 (DOS 2.0 or later)	Varies dep. on proc.
Storage Devices	—	—	Varies dep. on proc.
Operating System	MS-DOS 2.0, PC-DOS	DOS 1.1 or later	PICK O/S
Source Language	C	C	PICK, Assembly
General Features			
Index Generation	Not avail.	Not avail.	Std
Stored Print Formats	Std	Std	Std
File/Document Security	Not avail.	Not avail.	Std
Background Processing	Not avail.	Std	Print spooling only
Multiple Terminal Support	Not avail.	Not avail.	Std
Editing/Display Features			
Orientation	Std	Std	Std
Global Search & Replace	Std	Std	Std
Records Processing	Std	Std	Std
Alphanumeric Select/Sort	Std	—	Std
Math Functions	Std (on screen)	—	Not avail.
Paginate/Repaginate	Std	Std	Std
Programmable Keys	Std	Std	—
Operator Help		Std	Std
Windows		—	—
Spelling Dictionary		Std	Std
Word Wraparound	Auto.	Std	Std
Centering	Std	Std	Std
Underline	Std	Std	Std (interactive)
Boldface	Std	Std	Std (interactive)
Headers/Footers	Std	Std	Std
Menu Driven	Std (custom defined)	Std	Opt.
Graphics Display	Std	Not avail.	Not avail.
Proportional Spacing	Not avail.	Std	Micro-justif.
Foreign Languages	Std (custom defined)	Not avail.	Not avail.
Margin Justification	Std	Std	Std
Formula Printing	Std	Not avail.	Super/subscripts only
Delivery Media			
First Delivery (Mo./Yr.)	8/84	5/84	1/81
Installed Base (# of)	—	4,070	12,000
Pricing Information			
Purchase or One-Time	\$295	\$500	\$395
License Fee (\$ amount)			
Annual Support Fee	NA	NA	—
(\$ amount)			
Multiple Site License	—	—	Avail. on request
Vendor Support			
Training	On-site	Avail on or off cust. site	On-site
Documentation	User's Manual	Manual, std	User's Manual
Newsletter	Avail.	—	As needed
Program Updates	Avail. on request	Through dealer	Through dealer
Telephone Support	Yes	Yes (800) 222-0592	Yes
Comments	—	Interfaces with KeepIT relational DBMS	Compat. with most terminals, lineprinters and letter- quality printers

Notes:

— Information unavailable at press time
NA Not applicable



Vendor Package (name)	Leading Edge Products Leading Edge Word Processing	Lexisoft, Inc. Spellbinder	Lexisoft, Inc. Spellbinder Scientific
Requirements			
Processor/Computer Model	IBM PC & compatibles	IBM PC Series & compatibles	IBM PC Series & compatibles, Hewlett Packard 150
RAM (KB)	256	64	256
Storage Devices	Single or dual 5.25-in. diskette drive	Single or dual 5.25-in. diskette drive	5.25-in. diskette drive
Operating System	MS/PC DOS	MS-DOS, CP/M, CP/M-86, OASIS	MS-DOS
Source Language	Proprietary	Assembly	Assembly
General Features			
Index Generation	Not avail.	Not avail.	Not avail.
Stored Print Formats	Std	Std	Std
File/Document Security	Not avail.	Not avail.	Not avail.
Background Processing	Std (spool only)	Std	Std
Multiple Terminal Support	Not avail.	Std	Std
Editing/Display Features			
Orientation	Std	Std	Std
Global Search & Replace	Std	Std	Std
Records Processing	Std	Std	Std
Alphanumeric Select/Sort	Std	Std	Std
Math Functions	Not avail.	Std (4 basic forms)	Std
Paginate/Repaginate	Std (auto.)	No	Std
Programmable Keys	Std	Std	Std
Operator Help	Std	Std	Std
Windows	Std	Std	Std
Spelling Dictionary	Std	50,000 words	50,000 words
Word Wraparound	Std	Std	Std
Centering	Std	Std	Std
Underline	Std	Std	Std
Boldface	Std	Std	Std
Headers/Footers	Std	Std	Std
Menu Driven	Std	Std	Std
Graphics Display	Not avail.	Std	Std
Proportional Spacing	Not avail.	Std	Std
Foreign Languages	Not avail.	Std	Std
Margin Justification	Std	Std	Std
Formula Printing	Lmtd.	Not avail.	Std
Delivery Media			
First Delivery (Mo./Yr.)	10/83	6/78	11/84
Installed Base (# of)	40,000	100,000	800
Pricing Information			
Purchase or One-Time License Fee (\$ amount)	\$250	\$495	\$790
Annual Support Fee (\$ amount)	Through dealer	NA	NA
Multiple Site License	Through dealer	—	—
Vendor Support			
Training	Audio-Video cassette	Tutorials & cassettes avail. from dlr.	Tutorials & cassettes avail. from dlr.
Documentation	Users Manual	Manual std.	Manual, std.
Newsletter	As needed	Dealers only	Dealers only
Program Updates	\$75 add'l ea. update	Contact dealer	Contact dealer
Telephone Support	Yes (800) 343-HELP 6 days/wk	Yes	Yes
Comments	—		

Notes:

— Information unavailable at press time
NA Not applicable



Vendor	Lifetree Software, Inc.	MARC Software Int'l Inc.	Mark of the Unicorn
Package (name)	Volkswriter Deluxe	WordMARC	The Finalword
Requirements			
Processor/Computer Model	IBM PC Series & compatibles, AT&T PC 6300, Data General/One, Texas Instr. Professional, Sperry PC	IBM PC series & compatibles, Digital Equipment Rainbow, Texas Instr. Professional	IBM PC Series & compatibles, Digital Equipment Rainbow, Texas Instr. Professional Zenith 100/150
RAM (KB)	128	256	128
Storage Devices	Dual DS diskette drives or single DS disk drive and hard disk	5.25- or 8-in. diskette drive	Dual diskette drives
Operating System	MS-DOS	MS/PC DOS	MS/PC DOS, CP/M-86
Source Language	Pascal	FORTRAN	C
General Features			
Index Generation	Not avail.	Std	Std
Stored Print Formats	Std	Std	Std
File/Document Security	Not avail.	Std	Not avail.
Background Processing	Under DDS	Std	Opt.
Multiple Terminal Support	Std	Std	Not avail.
Editing/Display Features			
Orientation	Std	Std	Std
Global Search & Replace	Std	Std	Std
Records Processing	Std	Std	Std
Alphanumeric Select/Sort	Std	—	Not avail.
Math Functions	Not avail.	—	Not avail.
Paginate/Repaginate	Std	—	Std
Programmable Keys	Std	—	Std
Operator Help	Std	Std	Not avail.
Windows	—	—	Std
Spelling Dictionary	—	Std	No
Word Wraparound	Std	Std	Std
Centering	Std	Std	Std
Underline	Std	Std	Std
Boldface	Std	Std	Std
Headers/Footers	Std	Std	Std
Menu Driven	Std	Opt.	Std
Graphics Display	Std	Not avail.	Not avail.
Proportional Spacing	Std	Std inc. printing	Std
Foreign Languages	Opt.	Std	Std (depends on proc.)
Margin Justification	Std	Std	Std
Formula Printing	Not avail.	Std	Std
Delivery Media			
First Delivery (Mo./Yr.)	1/84	1/84	10/81
Installed Base (# of)	40,000	—	—
Pricing Information			
Purchase or One-Time License Fee (\$ amount)	\$295	\$495	\$300
Annual Support Fee (\$ amount)	No charge	\$50	NA
Multiple Site License	Avail. on request	Avail.	—
Vendor Support			
Training	On-site	Through dealer	Through dealer
Documentation	Manual std. demo diskette for dtrs, tutorials	Self-teaching, User Quick Reference Guide	Ref. manual & tutorials
Newsletter	Quarterly	Yes	No
Program Updates	Through dealer	Not avail.	Avail. through dealer
Telephone Support	Dtrs. only	Yes, 800 hot-line	Yes
Comments	Opt. engineering & scientific symbols	—	—

Notes:

— Information unavailable at press time
 NA Not applicable



Vendor Package (name)	Metasoft Corp. Benchmark Word Processor	MicroArt Corporation IMAGE Word/Graphics Processor 4.0	Micropro International Easy
Requirements Processor/Computer Model	Intel 8086, 8088, 8086/IBM PC Series & compatibles; Texas Instr. Professional, Victor 9000, Digital Equipment Rainbow 100 & 100 +	Digital Equipment micro's	IBM PC Series & compatibles
RAM (KB)	256	64	256
Storage Devices	Dual 5.25-in. diskette drives	—	Dual diskette drives or single diskette & hard disk drive
Operating System	MS/PC-DOS	CP/M 80 & 86	MS/PC DOS 2.0 or later
Source Language	Assembler, C	Assembly	—
General Features Index Generation	Std	Not avail.	Std
Stored Print Formats	Std	Not avail.	Std
File/Document Security	Hardware dep.	Not avail.	Std
Background Processing	Next release	Not avail.	Std
Multiple Terminal Support	Next release	Not avail.	Std
Editing/Display Features Orientation	Std	Std	Std
Global Search & Replace	Std	Std	Std
Records Processing	Std	Std	Std
Alphanumeric Select/Sort	Not avail.	—	Std
Math Functions	Std (4 functions)	—	—
Paginate/Repaginate	Std	—	Std
Programmable Keys	Std	Std	Std
Operator Help	Not avail.	—	Std
Windows	—	Std	Std
Spelling Dictionary	Opt. 29,000 words	Std	Std
Word Wraparound	Std	Std	65,000 words
Centering	Std	Std	Std
Underline	Std	Std	Std
Boldface	Std	Std	Std
Headers/Footers	Std	Std	Std
Menu Driven	Std	Std	Std
Graphics Display	Line only; opt. pgk. avail.	Std	—
Proportional Spacing	Std	Std	Std
Foreign Languages	Not avail.	Not avail.	—
Margin Justification	Std	Std	Std
Formula Printing	Std	Not avail.	Std
Delivery Media First Delivery (Mo./Yr.)	1/79	1/84	—
Installed Base (# of)	100,000	—	—
Pricing Information Purchase or One-Time License Fee (\$ amount)	Varies; from \$395	\$295	\$150
Annual Support Fee (\$ amount)	No charge	NA	—
Multiple Site License	Avail. upon request	—	—
Vendor Support Training	Through dealer	Through dealer	Through dealer
Documentation	Manual std.	Manual	Text & sample files, std
Newsletter	Yes	Not avail.	Provided through dealer
Program Updates	Yes (nominal charge)	\$35 fee when upgraded	—
Telephone Support	(800-621-1908)	Yes	Std (no add'l fee)
Comments	Phrase library & auto. footnoting std.		—

Notes:

— Information unavailable at press time
NA Not applicable

Vendor	MicroPro International Corp	MicroPro International Corp	Microsoft Corporation
Package (name)	WordStar 2000 Plus (1.01)	WordStar Professional (3.3)	Microsoft Word (1.05)
Requirements			
Processor/Computer	Intel 8088/86	Intel 8088/86	Apple Macintosh
Model			
RAM (KB)	256	192	128
Storage Devices	Dual diskette drives or hard disk	Dual diskette drives or hard disk	Single diskette drive; 2nd diskette drive rec. by vendor
Operating System	PC-DOS 2.0 or higher	PC-DOS 2.0 or higher	Macintosh OS
Source Language	C	Assembler	—
General Features			
Index Generation	Std	Std	Not avail.
Stored Print Formats	Std	Not avail.	Not avail.
File/Document Security	Not avail.	Not avail.	Not avail.
Background Processing	Std	Std	Not avail.
Multiple Terminal Support	—	—	Not avail.
Editing/Display Features			
Orientation	Std	Std	Std
Global Search & Replace	Std	Std	—
Records Processing	Std	Std	Std
Alphanumeric Select/Sort	Std	Std	—
Math Functions	Std	Std	—
Paginate/Repaginate	Std	Std	Std
Programmable Keys	Std	Std	Std
Operator Help	Std	Std	Std
Windows	Std	Std	Std
Spelling Dictionary	Std	Std	Std
Word Wraparound	Std	Std	—
Centering	Std	Std	Std
Underline	Std	Std (not on screen)	Std
Boldface	Std	Std (not on screen)	Std
Headers/Footers	Std	Std	Std
Menu Driven	Std	Std	—
Graphics Display	Std	Std	Std
Proportional Spacing	Std	Std	Std
Foreign Languages	Std (French, German, Japanese & European)	Std (French, German, Japanese & European)	—
Margin Justification	Std	Std	Std
Formula Printing	Not avail.	Std	—
Delivery Media			
First Delivery (Mo./Yr.)	11/84	1/80	1/85
Installed Base (# of)	—	1.5 million +	—
Pricing Information			
Purchase or One-Time License Fee (\$ amount)	\$595	\$495	\$195
Annual Support Fee (\$ amount)	\$1,000 (Corps. price)	\$1,000 (Corps. price)	—
Multiple Site License	Avail.	Avail.	NA
Vendor Support			
Training	Through dealer	Through dealer	As needed
Documentation	User's guide	User's guide	Manual std
Newsletter	Not avail.	Not avail.	Through dealer
Program Updates	Yes	Yes	Through dealer
Telephone Support	Free (Corps. only)	Yes	Yes
Comments	—	—	Incl. auto footnoting, mouse and keyboard editing, variable font sizes

Notes:

— Information unavailable at press time
 NA Not applicable



Vendor	Microsoft Corporation	MultiMate Int'l Corp.	MultiMate Int'l Corp.
Package (name)	Microsoft Word (2.0)	Advantage Professional Word Processor	Executive Word Processor
Requirements			
Processor/Computer	IBM PC Series & compatibles	IBM PC Series & compatibles	IBM PC Series & compatibles
Model			
RAM (KB)	256	320	320
Storage Devices	Dual diskette drives	Dual DS diskette drives or hard disk compatible	Dual DS diskette drives
Operating System	DOS 2.0 or higher	DOS 2.0 or higher	DOS 2.0 or higher
Source Language	C	Assembly, C	—
General Features			
Index Generation	Not avail.	Std	Not avail.
Stored Print Formats	Std	Std	Std
File/Document Security	Not avail.	Not avail.	Not avail.
Background Processing	Std	Std	Std
Multiple Terminal Support	Std w/networking version	Std	Not avail.
Editing/Display Features			
Orientation	Std	Std	Std
Global Search & Replace	—	Std	Std
Records Processing	Std	Std	Std
Alphanumeric Select/Sort	—	Std	Std
Math Functions	—	Std	Std
Paginate/Repaginate	Std	Std	Std
Programmable Keys	—	Std	Std
Operator Help	Std	Std	Std
Windows	Std	Std	Std
Spelling Dictionary	Std	Std	Std
Word Wraparound	Std	Std	Std
Centering	Std	Std	Std
Underline	Std	Std	Std
Boldface	Std	Std	Std
Headers/Footers	Std	Std	Std
Menu Driven	Std	Std	Std
Graphics Display	Std (char formatting)	Not avail.	Not avail.
Proportional Spacing	Std	Std	Std
Foreign Languages	Std	Add'l languages avail.	Not avail.
Margin Justification	Std	Std	Std
Formula Printing	Lmtd	Std	Based on IBM extended character set
Delivery Media			
First Delivery (Mo./Yr.)	10/83, 2/85 (version 2.0)	7/85	1/85
Installed Base (# of)	100,000	5,000	—
Pricing Information			
Purchase or One-Time	\$396	\$595	\$495
License Fee (\$ amount)			
Annual Support Fee (\$ amount)	No charge	\$50/yr	\$50/yr
Multiple Site License	—	Avail.	—
Vendor Support			
Training	Through dealer	Tutorials	Tutorials
Documentation	User's manual	Reference book	Through dealer
Newsletter	As needed	As needed	As needed
Program Updates	Add'l fee	\$50/yr	\$50/yr
Telephone Support	Yes	Tech. support free for 60 days	Tech. support free for 60 days
Comments	Incl glossary, auto footnotes, up to 64 fonts. Supports 50+ printers incl. laser. Opt. mouse interface & Microsoft Word for Netwks (\$1,195)	Includes MultiMate On-File, info. mgmt pkg	Nat'l ntwk of indepen. training centers & users groups

Notes:

— Information unavailable at press time
 NA Not applicable



Vendor	MultiMate Int'l Corp.	MultiMate Int'l Corp.	MultiMate Int'l Corp.
Package (name)	Just Write	3.3 Series LAN Version	MultiMate Professional 3.3
Requirements			
Processor/Computer	IBM PC Series, PCjr, & compatibles	IBM PC Series & compatibles	IBM PC Series
Model	128	256	256
RAM (KB)	Single DS disk drive or hard disk compatible	Hard disk	Dual DS diskette drives or hard disk
Storage Devices	DOS 2.0 or higher	DOS 2.0 or higher	DOS 2.0 or higher
Operating System	—	—	—
Source Language			
General Features			
Index Generation	Not avail.	Not avail.	Not avail.
Stored Print Formats	Not avail.	Std	Std
File/Document Security	Not avail.	Std	Not avail.
Background Processing	Not avail.	Std	Std
Multiple Terminal Support	Not avail.	Std	Not avail.
Editing/Display Features			
Orientation	Std	Std	Std
Global Search & Replace	Std	Std	Std
Records Processing	—	Std	Std
Alphanumeric Select/Sort	Std	Std	Std
Math Functions	Std	Std	Std
Paginate/Repaginate	Std	Std	Std
Programmable Keys	Std	Std	Std
Operator Help	—	Std	—
Windows	—	Std	—
Spelling Dictionary	50,000 word	Std	80,000 words
Word Wraparound	Std	Std	—
Centering	Std	Std	Std
Underline	Std	Std	Std
Boldface	Std	Std	Std
Headers/Footers	Not avail.	Std	Std
Menu Driven	Std	Std	—
Graphics Display	Not avail.	Not avail.	Std
Proportional Spacing	Not avail.	Std	Std
Foreign Languages	Not avail.	Not avail.	Std
Margin Justification	Not avail.	Std	Std
Formula Printing	Not avail.	Std	Std
Delivery Media			
First Delivery (Mo./Yr.)	1/85	1/85	1/85
Installed Base (# of)	—	—	—
Pricing Information			
Purchase or One-Time License Fee (\$ amount)	\$145	\$995/3 workstations	\$496
Annual Support Fee (\$ amount)	\$25	Avail.	\$50 per update
Multiple Site License	Not avail.	Avail.	Avail.
Vendor Support			
Training	Through dealer	Through dealer	Through dealer
Documentation	User's Manual	Manual	User's Manual
Newsletter	Through dealer	As needed	Avail. to reg. users
Program Updates	Through dealer	Through dealer	Avail. to reg. users
Telephone Support	Includes two free calls	Through dealer	Avail. to reg. users
Comments	Phrase memory feature for storage/recall of frequently used text.	Transfers info. electronically btwn wksta's	Users can store doc. & keystrokes in special phrase library

Notes:

— Information unavailable at press time
 NA Not applicable



Vendor Package (name)	Office Solutions Office Writer 3.5	Paladin Software Corp VISIWORD PLUS	Palintir Software The Word Processor
Requirements Processor/Computer Model	IBM PC Series; Digital Equipment Rainbow 192	IBM PC Series; Texas Instr. Professional 192	Intek 8086, 8088 Series/IBM PC Series & compatibles 64
RAM (KB)	Dual diskette drives	—	Diskette or hard disk
Storage Devices	MS/PC DOS	PC DOS	MS/PC DOS
Operating System	Pascal	BASIC	C, Assembly
Source Language	Not avail.	Not avail.	Not avail.
General Features Index Generation	Std	Std	Std
Stored Print Formats	Not avail.	Not avail.	Not avail.
File/Document Security	Std	Std	Std
Background Processing	Std	Std	Not avail.
Multiple Terminal Support	Std	Std	Not avail.
Editing/Display Features Orientation	Std	Std	Std
Global Search & Replace	Std	Std	Std
Records Processing	Std	Std	Std
Alphanumeric Select/Sort	Not avail.	Not avail.	Std
Math Functions	Next release	Not avail.	Std (36 keystrokes)
Paginate/Repaginate	Std	Std	Std
Programmable Keys	Next release	Std	Std
Operator Help	Std	Std	Std
Windows	Not avail.	Std	Not avail.
Spelling Dictionary	80,000 words (user customizable)	Master dictionary (100,000 words)	Opt.
Word Wraparound	Std	Std	Std
Centering	Std	Std	Std
Underline	Std (no display)	Std	Std
Boldface	Std	Std	Std
Headers/Footers	Std	Std	Multiple
Menu Driven	Std (also commands)	Std	Std
Graphics Display	Not avail.	Std	Not avail.
Proportional Spacing	Std (printer depen.)	Std	Std
Foreign Languages	Std (special symbols avail.)	Not avail.	Not avail.
Margin Justification	Std	Std	Std
Formula Printing	Sub- & superscripts only	Super & subscripts only	Not avail.
Delivery Media First Delivery (Mo./Yr.)	8/83	—	1/83
Installed Base (# of)	10,000	—	30,000
Pricing Information Purchase or One-Time License Fee (\$ amount)	\$445	\$195	\$295
Annual Support Fee (\$ amount)	No charge	No charge	90 days free—\$300 per year
Multiple Site License	Avail. upon request	15–35% off std purchase	\$750 per site—\$95 per copy
Vendor Support Training	User guide	Through dealer	Through dealer
Documentation	On-screen tutorial & sample documents	User's manual	Manual & tutorials
Newsletter	Not avail.	Through dealer	Quarterly
Program Updates	\$50 per update	Through dealer	Program announcements std., \$50/yr
Telephone Support	Toll free (800) 228-0747	Yes	Yes, 800#
Comments	Purchases of 3.5 after 10/1/85 incl. non-copy protected disk. Cust. using earlier versions can upgrade to unprotected 3.5 for \$50	—	

Notes:

— Information unavailable at press time
 NA Not applicable



Vendor Package (name) Requirements	Peachtree Software PeachText Word Processor	Peachtree Software PeachText 5000	QAX Intl. Systems Corp. 3 * 16 Word Processor
Processor/Computer Model	IBM PC Series; Texas Instr. Professional; Compaq PC Series; Eagle PC, AT&T 6300 PC	IBM PC & XT, PC compatibles	IBM PC Series; Data General Desktop Generation
RAM (KB)	96	96	64 (Data Gen'l) 256 (IBM)
Storage Devices	Dual SS diskette drives	5.25-in. diskette drive	Hard disk
Operating System	MS-DOS	PC/MS DOS	Data General RDOS, IBM DOS
Source Language	Assembler	Assembler	Business BASIC
General Features			
Index Generation	Std	Not avail.	Std
Stored Print Formats	Std	Not avail.	Std
File/Document Security	Std	Not avail.	Std (password)
Background Processing	Std	Std	Not avail.
Multiple Terminal Support	—	Not avail.	Std
Editing/Display Features			
Orientation	Std	Std	Std
Global Search & Replace	Std	Std	Std
Records Processing	Std	Std	Std
Alphanumeric Select/Sort	—	Std	No
Math Functions	—	Std	Std (blt-in calculator)
Paginate/Repaginate	Std	Not avail.	Not avail.
Programmable Keys	Std	Not avail.	Not avail.
Operator Help	Std	Std	Not avail.
Windows	Not avail.	Std	Auto.
Spelling Dictionary	50,000 words	4,400 keywords & 26,000 synonyms	26,000 words (base)
Word Wraparound	Std	Std	Std
Centering	Std	Std	Std
Underline	Std	Std	Std
Boldface	Std	Std	Std
Headers/Footers	Std	Std	Std
Menu Driven	Std	Std	Std
Graphics Display	Not avail.	Not avail.	Not avail.
Proportional Spacing	Std	Std	Not avail.
Foreign Languages	Not avail.	Not avail.	Not avail.
Margin Justification	Std	Not avail.	Std
Formula Printing	Not avail.	Not avail.	Not avail.
Delivery Media			
First Delivery (Mo./Yr.)	—	4/83	1/80 (DG) 4/83 (IBM)
Installed Base (# of)	—	20,000	—
Pricing Information			
Purchase or One-Time License Fee (\$ amount)	\$250	\$395	\$1,400 (DG) \$750 (IBM)
Annual Support Fee (\$ amount)	Through dealer	Through dealer	\$120
Multiple Site License	Avail.	—	Contact dealer
Vendor Support			
Training	Through dealer	Through dealer	Opt. (Video)
Documentation	User's manual	On-screen tutorial	Manual
Newsletter	Through dealer	Yes	Not avail.
Program Updates	Through dealer	Through dealer	Not avail.
Telephone Support	Yes, (800) 554-8900	Std	Std
Comments		—	

Notes:

— Information unavailable at press time
NA Not applicable



Vendor	R Systems	R Systems, Inc.	SAMNA Corp.
Package (name)	R Office	R Word	SAMNA WORD III (3.0)
Requirements			
Processor/Computer Model	IBM PC Series & compatibles; AT&T PC 6300; Compaq PC Series; Corona PC	IBM PC Series & compatibles; AT&T PC 6300; Compaq PC Series; Corona PC	Intel 8086/IBM PC Series & compatibles
RAM (KB)	512	256	256
Storage Devices	5.25-in. diskette drive	5.25-in. diskette drive	Dual diskette drive or 10MB hard disk
Operating System	UNIX	RM/COS	MS/PC DOS
Source Language	Assembly	Assembly	C, Assembly
General Features			
Index Generation	Std	Std	Std
Stored Print Formats	Std	Std	Std
File/Document Security	Std	Std	Not avail.
Background Processing	Std	Std	Std
Multiple Terminal Support	Std	Std	Ntwk ver. avail.
Editing/Display Features			
Orientation	Std	Std	Std
Global Search & Replace	Std	Std	Std
Records Processing	Std	Std	Std
Alphanumeric Select/Sort	Std	Not avail.	Std
Math Functions	Std	Std (integ. spreadsheet)	Std
Paginate/Repaginate	Std	Std	Std
Programmable Keys	No	Not avail.	Std
Operator Help	No	Not avail.	Std
Windows	Std	Std	Std
Spelling Dictionary	50,000 words	50,000 words	80,000 words
Word Wraparound	Std	Std	Std
Centering	Std	Std	Std
Underline	Std	Std	Std
Boldface	Std	Std	Std
Headers/Footers	Std	Std	Std
Menu Driven	Std	Std	Std
Graphics Display	Not avail.	Not avail.	No (key driven)
Proportional Spacing	Not avail.	Not avail.	Line drawing only
Foreign Languages	Std	Std	Std
Margin Justification	Std	Std	Std
Formula Printing	Std	Std	Std
Delivery Media			
First Delivery (Mo./Yr.)	2/85	6/84	3/84
Installed Base (# of)	3,870	—	11,500
Pricing Information			
Purchase or One-Time License Fee (\$ amount)	\$495	Single user \$295, multiuser \$895	\$550
Annual Support Fee (\$ amount)	\$250 up to 25 calls	\$250 up to 25 calls	Various levels avail., \$125-\$249 per yr.
Multiple Site License	Contact dealer	Through dealer	Avail. on request
Vendor Support			
Training	Avail. upon request	Avail. upon request	Through dealer
Documentation	Manual, tutorials	Manual & tutorials	Manual std., tutorials & demo diskettes avail.
Newsletter	Not avail.	Not avail.	Yes
Program Updates	Fee when upgrading	Fee when upgrading	Provided through dealer
Telephone Support	Yes, (800) 527-7610	Yes, (800) 527-7610	Yes
Comments	Incl. integ. report generator, auto scheduling capability	Includes footnotes, auto table of contents	

Notes:

— Information unavailable at press time
 NA Not applicable



Vendor	SAMNA Corp.	Satellite Software	Schuchardt Software
Package (name)	SAMNA + (3.1)	WordPerfect 4.1	InteWord ¹
Requirements			
Processor/Computer Model	Intel 8086/IBM PC Series & compatibles	IBM PC Series & compatibles; Victor 9000; Texas Instr. Professional; DEC Rainbow; Zenith Z-100; Tandy 1200 & 2000; & Data General/One	IBM PC Series & compatibles
RAM (KB)	Varies dep. on OS	256	128
Storage Devices	Dual diskette drive or single diskette drive & hard disk	Dual diskette drive	Hard disk
Operating System	MS/PC DOS	MS DOS	PC-DOS 1.0-3.0
Source Language	C, Assembler	Assembly	Latrice
General Features			
Index Generation	Std	Std	Not avail.
Stored Print Formats	Std	Std	Std
File/Document Security	Not avail.	Std	Not avail.
Background Processing	Std	Std	Not avail.
Multiple Terminal Support	Ntwk ver. avail.	Std	Std
Editing/Display Features			
Orientation	Std	Std	Std
Global Search & Replace	Std	Std	Std (63 chars max.)
Records Processing	Std	Std	Std
Alphanumeric Select/Sort	Std	Std	Std
Math Functions	Std	Std	Std
Paginate/Repaginate	Std	Std	Std
Programmable Keys	Std	Std	Not avail.
Operator Help	Std	Std	Std
Windows	Std	Std	Std
Spelling Dictionary	80,000 words	120,000 words	Not avail.
Word Wraparound	Std	Std	Std
Centering	Std	Std	Std
Underline	Std	Std	Std
Boldface	Std	Std	Std
Headers/Footers	Std	Std	Std
Menu Driven	No (key driven)	Std (function)	Partially
Graphics Display	Line drawing only	Std (Text)	Not avail.
Proportional Spacing	Std	Std	Std
Foreign Languages	Std	Std	Not avail.
Margin Justification	Std	Std	Std
Formula Printing	Std	Std	Not avail.
Delivery Media			
First Delivery (Mo./Yr.)	10/84	1/82	3/84
Installed Base (# of)	3,800	2,000	1,000 +
Pricing Information			
Purchase or One-Time License Fee (\$ amount)	\$695	\$495	\$249/copy
Annual Support Fee (\$ amount)	Various levels avail., \$125-\$249 per yr.	No add'l charge	Opt. \$83/yr
Multiple Site License	Std	Avail. upon request	Contact dealer
Vendor Support			
Training	Through dealer	Manual, diskette	Provided by dealer
Documentation	Manual std, tutorials & demo diskettes avail.	Manual	Manual, only
Newsletter	Yes	As needed	Not avail.
Program Updates	Provided through dealer	Add'l fee	Avail.
Telephone Support	Yes	Yes, (800) 321-5906	Yes
Comments		Mktg rep. train dealers upon request	Opt. color display no add'l cost

Notes:

— Information unavailable at press time
 NA Not applicable



Vendor	Sof/Sys Inc.	SofText Inc.	Software Dynamics
Package (name)	Executive Secretary	Lex Word Processing System	Type
Requirements			
Processor/Computer Model	Apple II Plus; IBM PC Series	Dual Motorola 68000/Altos models 2086, 986, 586, 486, 186, Hewlett Packard 150	Motorola 68000
RAM (KB)	64 (Apple), 128 (IBM)	256	56
Storage Devices	Single diskette drive	—	Dual-diskette drive
Operating System	Apple DOS 3.3, MS-DOS Assembly, BASIC	UNIX, XENIX, MS-DOS 2.0 C	S-DOS, S-DOS/MT
Source Language			Compiled BASIC
General Features			
Index Generation	Std	Std	Opt.
Stored Print Formats	Std	Std	Not avail.
File/Document Security	Not avail.	Dep on OS	Not avail.
Background Processing	Not avail.	—	Not avail.
Multiple Terminal Support	Opt.	Std	Std
Editing/Display Features			
Orientation	Std	Std	Std
Global Search & Replace	Std	Std	Std
Records Processing	Std	Std	Not avail.
Alphanumeric Select/Sort	Std	Std	Not avail.
Math Functions	Not avail.	Std, bit-in calculator	Not avail.
Paginate/Repaginate	Std	Std	Std
Programmable Keys	Not avail.	Std	Not avail.
Operator Help	Not avail.	Std	Not avail.
Windows	Not avail.	Not avail.	Not avail.
Spelling Dictionary	Opt. 25,000 words	120,000 words	Not avail.
Word Wraparound	Std	Std	Std
Centering	Std	Std	Std
Underline	Print only	Std	Std
Boldface	Print only	Std	Not avail.
Headers/Footers	Multiline headers	Std	Std
Menu Driven	Std	Std	Not avail.
Graphics Display	Not avail.	Vertical typing mode	Not avail.
Proportional Spacing	Print only	Not avail.	Not avail.
Foreign Languages	Std (depends on printer)	Std	Std
Margin Justification	Std	Std	Std (left & right)
Formula Printing	Not avail.	Std	Not avail.
Delivery Media			
First Delivery (Mo./Yr.)	8/80	1/79	1/80
Installed Base (# of)	3,500	5,000	200 (U.S.)
Pricing Information			
Purchase or One-Time License Fee (\$ amount)	\$250	Contact dealer	\$140
Annual Support Fee (\$ amount)	—	\$250/yr; 1st 30 days free	NA
Multiple Site License	—	—	—
Vendor Support			
Training	Through dealer	On or off site	Through dealer publisher
Documentation	User's manual	Manual, only	Manual, std.
Newsletter	—	In development	Not avail.
Program Updates	Not avail.	Semi-annual	Provided by dealer
Telephone Support	Yes	Std	Std (1 yr/no charge)
Comments	80 col. board req'd w/Apple II		

Notes:

- Information unavailable at press time
 NA Not applicable

Vendor Package (name) Requirements Processor/Computer Model	Software Publishing PFS Write	Syntactics Corp CrystalWriter	Syntactics Corporation CrystalWriter Plus
RAM (KB) Storage Devices	IBM PC Series & compatibles	Motorola 68000/AT&T 3B2 Series, UNIX 7300 PC; NCR Tower; Convergent Tech. Mainframe/Megaframe	AT&T 3B2 Series, UNIX 7300 PC; NCR Tower; Convergent Tech. Mini- & Megaframe
Operating System	256 DS diskette drive	256 5.25- or 8-in. diskette drive, Xyquest cart. tape	256 5.25-in. diskette drive
Source Language	MS DOS 2.0 or higher	UNIX & UNIX compatibles	UNIX System 5
General Features	PASCAL	Pascal & C	C
Index Generation	Not avail.	Not avail.	Not avail.
Stored Print Formats	Not avail.	Std	Std
File/Document Security	Std	Std	Std
Background Processing	Not avail.	Std	Std
Multiple Terminal Support	Not avail.	Std	Std
Editing/Display Features			
Orientation	Std	Std	Std
Global Search & Replace	Std	Not avail.	Not avail.
Records Processing	Std	Not avail.	Not avail.
Alphanumeric Select/Sort	Select only	Std	Not avail.
Math Functions	Not avail.	Not avail.	Std
Paginate/Repaginate	Auto.	Std	Not avail.
Programmable Keys	Not avail.	Not avail.	Not avail.
Operator Help	Std	Not avail.	Std
Windows	Not avail.	Not avail.	Not avail.
Spelling Dictionary	75,000 words	Std	80,000 words
Word Wraparound	Std	Std	Std
Centering	Std	Std	Std
Underline	Std	Std	Std
Boldface	Std	Std	Std
Headers/Footers	Std	Std	Std
Menu Driven	Std (also function keys)	Soft key driven	Function keys
Graphics Display	Std	Not avail.	Not avail.
Proportional Spacing	Std	Not avail.	Not avail.
Foreign Languages	Not avail.	Not avail.	Not avail.
Margin Justification	Std	Std	Std
Formula Printing	Std	Std	Std
Delivery Media			
First Delivery (Mo./Yr.)	6/83	8/83	10/85
Installed Base (# of)	—	2,000	—
Pricing Information			
Purchase or One-Time License Fee (\$ amount)	\$140	\$795 most systems	\$695-\$5,595 (depend. on proc./config.)
Annual Support Fee (\$ amount)	No charge	Opt. \$200/5 hrs.	Opt. \$200/5 hrs.
Multiple Site License	Not avail.	—	—
Vendor Support			
Training	For dealers only	On-site trng; \$300/day (min 6 per.)	Provided through dealer
Documentation	User's manual std	Users Manual	Users Manual std.
Newsletter	Quarterly	No	Not avail.
Program Updates	Semi-annual	Not avail.	Contact dealer
Telephone Support	Std	Free 30 day tele. support	Yes, 30 days free
Comments	—	Footnotes and decimal tab align. std	Incl. auto footnotes

Notes:

— Information unavailable at press time
NA Not applicable



Vendor	The Professor	TOM Software	University Software
Package (name)	Multi-lingual Word Processor	D.A.T.A. 3500	MasterWord Processor
Requirements			
Processor/Computer Model	Apple II, II + , IIc, IIe	AT&T 3B2; IBM PC Series; Digital Equipment MicroVAX II	Hewlett-Packard Series 200/300
RAM (KB)	64	28	750
Storage Devices	Single diskette drive	Disk, diskette or tape drive	—
Operating System	Apple DOS	MS/DOS, UNIX, Ultrix	BASIC
Source Language	Machine language	BASIC-2, TOMBASIC	BASIC, Pascal
General Features			
Index Generation	Std	Std	Std
Stored Print Formats	Std	Std	Std
File/Document Security	Not avail.	Std	Std
Background Processing	Not avail.	Std	Not avail.
Multiple Terminal Support	In network enviro.	Std	Std
Editing/Display Features			
Orientation	Std	Std	Std
Global Search & Replace	Std	Std	Std
Records Processing	Not avail.	Std	—
Alphanumeric Select/Sort	Not avail.	—	—
Math Functions	—	—	Opt. \$295
Paginate/Repaginate	—	Std	—
Programmable Keys	—	Std	—
Operator Help	—	Std	—
Windows	—	—	—
Spelling Dictionary	—	Std	Opt. \$295
Word Wraparound	Std	Std	Std
Centering	Std	Std	Std
Underline	Std	Std	Std
Boldface	Std	Not avail.	Std
Headers/Footers	Not avail.	Std	Std
Menu Driven	Std	Std	Std
Graphics Display	Not avail.	Not avail.	Not avail.
Proportional Spacing	Not avail.	Not avail.	Std
Foreign Languages	Std	Not avail.	Std
Margin Justification	Various avail.	Std	Std
Formula Printing	Opt.	Not avail.	Std
Delivery Media			
First Delivery (Mo./Yr.)	1/84	1/78	1/81
Installed Base (# of)	—	3,700	800
Pricing Information			
Purchase or One-Time License Fee (\$ amount)	\$99.95; Math & Science disk \$29.95, Russian disk \$39.95	\$800-\$3,500 (depend. on hardware config.)	\$495
Annual Support Fee (\$ amount)	—	—	NA
Multiple Site License	—	—	—
Vendor Support			
Training	Tutorials avail.	Local consultant avail.	None provided
Documentation	Manual std.	User's manual	Manual, std
Newsletter	No	Through dealer	Not avail.
Program Updates	As needed	Through dealer	Not avail.
Telephone Support	Yes, Toll free #	—	Yes
Comments	Foreign lang incl, Spanish, French, German, Danish/ Norwegian, Finnish/ Sweddish, Hawaiian, Hungarian, Italian, Latin/ Dutch, Polish, Portuguese, Turkish, Czech		—

Notes:

— Information unavailable at press time
 NA Not applicable



Vendor	Roger Wagner Publishing	Xyquest Inc.	
Package (name)	Mousewrite	XyWrite II Plus	
Requirements			
Processor/Computer	Enhanced Apple IIe or IIc	IBM PC & compatibles	
Model			
RAM (KB)	128	192	
Storage Devices	5.25-in. diskette drive	DS, DD diskette drives	
Operating System	ProDOS	PC-DOS 1.1 or higher	
Source Language	Assembly	Assembly	
General Features			
Index Generation	Not avail.	Std	
Stored Print Formats	Std	Std	
File/Document Security	Not avail.	Not avail.	
Background Processing	Not avail.	Std	
Multiple Terminal Support	Std	Not avail.	
Editing/Display Features			
Orientation	Std	Std	
Global Search & Replace	Std	Std	
Records Processing	Opt.	Std	
Alphanumeric Select/Sort	Not avail.	—	
Math Functions	Not avail.	Std	
Paginate/Repaginate	Std	Std	
Programmable Keys	Not avail.	Std	
Operator Help	Std	—	
Windows	Std	Std	
Spelling Dictionary	Opt.	—	
Word Wraparound	Std	Std	
Centering	Std	Std	
Underline	Std	Std	
Boldface	Std	Std	
Headers/Footers	Std	Std	
Menu Driven	Std	Not avail.	
Graphics Display	Not avail.	Std	
Proportional Spacing	Std	Std	
Foreign Languages	Not avail.	Std	
Margin Justification	Std	Std	
Formula Printing	Not avail.	Std	
Delivery Media			
First Delivery (Mo./Yr.)	8/85	9/82	
Installed Base (# of)	1,000	20,000	
Pricing Information			
Purchase or One-Time	\$125	\$295	
License Fee (\$ amount)			
Annual Support Fee	No charge	NA	
(\$ amount)			
Multiple Site License	—	Avail.	
Vendor Support			
Training	Through dealer	Avail. through 3rd party	
Documentation	Manual, std	NA	
Newsletter	Not avail.	Yes	
Program Updates	Through dealer		
Telephone Support	Not avail.	Yes	
Comments	Macintosh interface for Apple IIe & IIc	Powerful Macro facility and internal prog. lang.	

Notes:

— Information unavailable at press time
 NA Not applicable



MANUFACTURING Compatibility Matrix

219.0025.001

Vendor/Package	Compatible Operating Systems														Other		
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System		UNIX	XENIX
Compumax Bill of Materials MRP II (Manufacturing Resource Planning II)	•		•				•						•				Commodore DOS Commodore DOS
Computer Methods CMI Profit															•	•	MBOS
DBSI Information Systems MRPII Financial System										•					•		
Digital Microsystems HiNet/MRP			•														HiNet
ESCOM MMC																	PICK
Feith Systems and Software THE MANUFACTURER Inventory Control											•						
Bernard Giffler Associates MR²PS					•												
High Technology Software Products JCS (Job Control System) PACE (Prompt Accurate Cost Estimating)	• •						•										
Key Systems ProfitKey										•					•	•	Turbodos
Mandata System Mandata Manage 2000																	PICK
MCBA Manufacturing System							•			•					•	•	RM/COS
McCullough and Associates MPAC																	AMOS
Microcomputer Consultants INMASS			•		•			•	•	•							
Micro Manufacturing Systems MCS-3			•		•		•			•			•				
Midwest Computer Center BOMP			•														
Neoteric Computer Systems Manufacturing Inventory MRP	•		•							•			•			•	
Production Systems Manufacturing Control System			•		•		•			•							
Professional Business Computer Systems Distributor System															•		

Vendor/Package	Compatible Operating Systems														Other	
	Apple DOS/SOS	Concurrent CP/M-86	CP/M	CP/M 68K	CP/M-86	FORTH	IBM PC DOS	MP/M II	MP/M-86	MS-DOS	OASIS	OASIS-16	TRSDOS	UCSD p-System		UNIX
TCS Software TCS TOTAL MATERIALS			•							•						
TIPNIS ESTIMATION	•						•									
Viehmann Project Management System			•				•			•						

MANUFACTURING

Features Matrix

219.0030.001

Vendor/Package	System Capabilities															
	Bills of Material	Capacity Requirements Planning	Computer-Assisted Inspection	Cost Analysis	Data Management	Graphics	Integrated Accounting Support	Inventory Tracking/Analysis	Job Costing	Labor Distribution	Materials Allocation	Material Requirements Planning	Multilocation Support	Production Control	Project Scheduling/Control	Purchase Order Processing
Compumax Bills of Material MRP II (Manufacturing Resource Planning II)	•	•		•	•		•	•	•	•	•	•		•	•	•
Computer Methods CMI Profit	•	•					•	•	•	•		•			•	•
DBSI Information Systems MRPII Financial System	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Digital Microsystems HiNet/MRP	•	•							•	•	•	•			•	•
ESCOM MMC	•	•		•	•	•	•	•	•	•	•	•		•		•
Feith Systems and Software THE MANUFACTURER Inventory Control	•	•							•	•	•	•			•	•
Bernard Giffler Associates MR ² PS	•	•						•			•	•			•	•
High Technology Software Products JCS (Job Control System) PACE (Prompt Accurate Cost Estimating)				•					•	•		•			•	
Key Systems ProfitKey		•		•			•	•	•		•			•	•	•
Mandata Systems Mandata Manage 2000	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•
MCBA Manufacturing System	•	•		•	•		•	•	•	•	•	•	•	•	•	•
McCullough and Associates MPAC	•	•					•	•	•	•	•	•		•	•	•
Microcomputer Consultants INMASS	•	•		•	•		•	•	•	•	•	•	•	•	•	•
Micro Manufacturing Systems MCS-2, MCS-3	•	•					•	•			•	•				•
Midwest Computer Center BOMP	•			•					•	•		•				
Neoteric Computer Systems Manufacturing Inventory MRP											•		•		•	
Production Systems Manufacturing Control System	•	•	•	•	•		•	•	•		•	•	•	•	•	•
Professional Business Computer Systems Distributor System							•									•



AUERBACH

MANUFACTURING

Product Summaries

BERNARD GIFFLER ASSOCIATES

34 Linda Ln
Warrington PA 18976

(215) 343-3345

► MR2PS

A material and resource requirements planning system

Price \$10,000

Environment Computers: Those machines running under CP/M-86 or MS-DOS. Main storage: 128K bytes. Source language: BASIC.

Description The MR2PS system features inventory management, bills of material, material requirements planning, shop floor control, sales order tracking and shipping control and purchase order control.

MR2PS is an integrated manufacturing control system that runs on various computers. It supports production planning and provides in-depth control of material and end-item inventory from requirements planning through final product shipment.

Compatibility Matrix: 219.0025.001
Features Matrix: 219.0030.001

COMPUMAX

PO Box 7239
Menlo Park CA 94025

(415) 854-6700

► Bill of Materials

A general-purpose bill-of-material processing system

Price \$350 purchase

Environment Computers: Apple II and III, Commodore microcomputers, Kaypro II, NEC PC-8000, Osborne I, Tandy TRS-80 Models I and III, IBM Personal Computer Operating Systems: CP/M and MS-DOS. Main storage: 64K bytes. Source language: Microsoft BASIC.

Description Features include interactive, online inventory control, material requirements planning, bill-of-material processing. The system interfaces to Compumax Maxiledger accounting and routes reports to printer or to screen.

Bill of Materials is written specifically to handle inventory control and material requirements planning for the small manufacturer. The program sets up and maintains several files: a stock file, bill-of-material file, and scheduling file containing production scheduling data.

Inventory is sorted alphanumerically by part number. Inventory information is automatically updated by entering issue and receive transactions and/or processing net-

out inventory after the bill-of-materials program is run.

Compatibility Matrix: 219.0025.001
Features Matrix: 219.0030.001

COMPUMAX

PO Box 7239
Menlo Park CA 94025

(415) 854-6700

► MRP II (Manufacturing Resource Planning II)

An integrated manufacturing resource planning system

Price \$1,000 purchase

Environment Computers: IBM Personal Computer, Personal Computer XT; Apple II and III; NEC PC-8000; Osborne I; Kaypro II; Tandy TRS-80 Models I and III; Commodore microcomputer Operating Systems: CP/M and MS-DOS. Main storage: 64K bytes. Source language: Microsoft BASIC.

Description Features include purchase orders, customer/vendor profiles, work center and floor routing, master scheduling, invoice/shipping orders, floor orders/pick lists, production plan and capacity usage reports. All routines from Compumax BOMP are included in MRP II.

MRP II enables the manufacturer to schedule work for up to 30 periods (months, weeks, or days) in advance. A production plan is set up by the system. Bills of material are produced for all products. Projected requirements and scheduled receipts are generated to determine the projected balance available for all items in stock.

Customer invoices, floor orders, pick lists, and purchase orders are printed. Production schedules are evaluated, and work center loading, capacity usage, and routing reports are printed. Cash requirements for purchases as well as expected receipts from shipments are projected for all periods.

Compatibility Matrix: 219.0025.001
Features Matrix: 219.0030.001

COMPUTER METHODS

10335 W Oklahoma Ave
Milwaukee WI 53227

(414) 327-4471

► CMI Profit

A closed-loop manufacturing applications software system

Price Vendor declined to provide

Environment Computers: microcomputers running under MBOS, UNIX, XENIX. Main storage: 96K bytes. Source language: Business BASIC III, SMC BASIC.

Description Features include manufacturing planning and control, engineering control, inventory control, sales control, manufacturing costing, and accounting control. Individual program modules are configured as required.

CMI Profit is a modular, online, interactive and completely integrated manufacturing control, costing, and planning system consisting of seven modules.

The manufacturing module features master scheduling, material requirements planning, and capacity planning, combining firm, planned, and actual work orders by work center and date into man or machine hours needed for manufacturing. The manufacturing control module handles the creation, review, rescheduling, and closing of work orders and monitors labor and material used. The inventory control module maintains accurate, up-to-date, costed inventory records. The engineering control module allows users to create and maintain bills of material. Any number of levels can be accommodated.

The manufacturing costing module distributes costs associated with the manufacturing process. The financial planning module is used as a standalone planning tool or with general ledger and budgeting functions in the accounting control module to summarize financial plans, sales forecasts, and cash flow plans. The sales control module consists of sales order processing, sales analysis, and customer service applications.

Compatibility Matrix: 219.0025.001
Features Matrix: 219.0030.001

DBSI INFORMATION SYSTEMS

15500 Wayzata Blvd
Wayzata MN 55391

(612) 475-3144

► MRPII Financial System

An integrated production and financial package for the discrete manufacturer

Price Not available at publication time

Environment Computers: Those running under UNIX or MS-DOS operating systems. Main storage: 256K bytes, 35M-byte Winchester disk required. Source language: COBOL.

Description MRPII is an integrated, modular package. Each module can operate in a standalone mode or as part of a fully integrated manufacturing and financial information system. Eleven modules make up the system: product definition, purchasing/receiving, production control, inventory control, material planning, production planning, accounts payable, general ledger, accounts receivable, order processing, and sales analysis. The product definition module provides the capability for maintaining and retrieving item master engineer-

ing data, product structures, item costs, routings, tool data, and work center data. Costing is standard, actual, and base period, and can be maintained for material, labor, and burden cost components. Labor cost can be optionally built up through the routing files with variable labor and burden rates by work center. Reports issued by the system include standard/actual cost roll-up, single-level and indented bills of material, and single-level and indented where-used. With the purchasing/receiving module, the user can establish and track all purchases of controlled and noncontrolled items. The module maintains vendor information, purchase order status, and receiving history. The purchase order system supports drop shipments to other vendors or customers. Controlled and noncontrolled items can be mixed on the same purchase order, and expense accounts can be maintained by line item. DBSI's inventory module provides the capability to maintain, control, and manage inventory in a multiple-facility environment under optional revision or lot control. The inventory module also produces lists of items to be counted by facility and inventory location. With the production control module, the user can establish and control shop orders and track their associated costs throughout the production cycle. The material planning module maintains master production schedule, which identifies the total time-phased requirements of all items identified in the bill of materials. The production planning module provides the capability to plan and monitor production resources for optimal use. The order processing module processes orders from time of entry through picking, packing, verification, and invoicing. The module maintains sales order backlog, inventory status, customer credit status, and returned goods. It prints customer acknowledgements, shipping papers, and bills of lading; generates invoices; and back orders. As an after-sales service, DBSI provides a dial-in capability that allows the technical support staff to connect with the end user's system (via phone lines) to locate and diagnose a problem with the system.

Compatibility Matrix: 219.0025.001
Features Matrix: 219.0030.001

DIGITAL MICROSYSTEMS

1755 Embarcadero
Oakland CA 94606

(415) 532-3686

► HiNet/MRP

A closed-loop manufacturing resource planning system


Price \$39,950 purchase

Environment Computers: Digital Microsystems DMS 5000, DMS 1280, DMS 3/103 operating under CP/M. Main storage: 46K bytes. Source language: CBASIC.

Description System features include material requirements planning, master scheduling, planned orders, full pegging, simulation capability, work order costing, and shop floor control and purchasing.

HiNet/MRP is a closed-loop manufacturing resource





planning system designed to operate with the Digital Microsystems HiNet local area network. The system features online inquiry and processing capabilities for BOMP, inventory status by item, job status tracking, sales order status and shipping information, vendor performance data, and routings and operations.

Compatibility Matrix: 219.0025.001
Features Matrix: 219.0030.001

ESCOM

12838 SE 40th PI
 Bellevue WA 98006

(206) 641-4990

► Manufacturing Management & Control (MMC)

An integrated, interactive manufacturing control system

Price \$19,500-\$37,500

Environment Computers: Those systems running under Prime Information and PICK. Main storage: not specified. Source language: BASIC.

Description Features include engineering and sales entry, inventory planning, work order launching, purchasing, work-in-process costing, shop floor control, accounts receivable and payable, payroll, general ledger. The system addresses fabrication and assembly-type plants.

MMC is designed for the first-time manufacturing user with 50 to 800 employees. The primary installation includes training and data validation only. The package features extensive documentation oriented to all levels of user responsibility, particularly controlling material and plant capacity. MMC is marketed, installed, and serviced by independent Anacom representatives in most metropolitan areas.

Compatibility Matrix: 219.0025.001
Features Matrix: 219.0030.001

FEITH SYSTEMS AND SOFTWARE

1 Bala Plaza
 Bala Cynwyd PA 19004

(215) 667-5575

► THE MANUFACTURER Inventory Control

An inventory control and bill-of-material processor

Price \$1,500 purchase

Environment Computers: Any operating under OASIS. Main storage: 64K bytes. Source language: BASIC.

Description THE MANUFACTURER features multilevel bill of materials, automatic costing of assemblies, and materials requirements planning.

THE MANUFACTURER Inventory Control system is a fully integrated material requirements planning system that can be used with other Feith financial and distribution control modules, including sales order entry, pur-

chase order management, and job costing. The system is suitable for manufacturers of such assembled goods as electronics and hardware.

Compatibility Matrix: 219.0025.001
Features Matrix: 219.0030.001

HIGH TECHNOLOGY SOFTWARE PRODUCTS

8200 N Classen Blvd
 Suite 104
 Oklahoma City OK 73146

(405) 848-0480

► JCS (Job Control System)

An integrated job control and reporting system

Price \$450-\$950

Environment Computers: Apple II and III, Franklin Ace 100. Main storage: 64K and 128K bytes. Source language: Pascal.

Description JCS can be integrated with existing data collection procedure to track and report labor and material used. The system will handle 50 cost centers, 450 cost subcenters, 8 major cost subtotals, and up to 16,470 postings per activity journal.

JCS is a menu-driven job control system designed for small or medium-sized companies in the construction, manufacturing, or service industry. The system uses a series of prompted form entry procedures. All labor hours, material costs, outside service costs, production quantities, shipped quantities, and similar data are posted to JCS and printed on a daily post audit trail that presents total posted hours for each employee plus a total for all employees. Reports generated by JCS include work order, work in process, shop code, numerical/due date/detail job, and job cost summary.

Compatibility Matrix: 219.0025.001
Features Matrix: 219.0030.001

HIGH TECHNOLOGY SOFTWARE PRODUCTS

8200 N Classen Blvd
 Suite 104
 Oklahoma City OK 73146

(405) 848-0480

► PACE (Prompt Accurate Cost Estimating)

A general-purpose cost estimating system

Price \$395

Environment Computers: Apple II and III, Franklin Ace 100, IBM Personal Computer. Main storage: 64K bytes (Apple II, Franklin, IBM); 128K bytes (Apple III). Source language: Apple Pascal, UCSD Pascal.

Description PACE will estimate equipment, labor, and material requirements, based on user-defined pa-

rameters. The system produces detailed statements and reports.

PACE is a general-purpose software package designed for manufacturers, contractors, and subcontractors who rely on repetitive unit cost estimating. PACE appraises the cost of all project resources (equipment, labor, material) and produces detailed and summary cost reports, an estimate takeoff sheet, and a unit cost report. PACE stores the estimated details on diskette for subsequent recall and modification. Each estimate can contain up to 400 estimate end items derived from up to 400 cost items, all definable by the user. When costs change, PACE automatically reflects the change in all existing estimates and notifies the user of outdated costs.

Compatibility Matrix: 219.0025.001

Features Matrix: 219.0030.001

KEY SYSTEMS

382 Main St
200 Prestige Park
Salem NH 03079

(603) 898-9800

► ProfitKey

A closed loop materials requirements planning system for microcomputers

Price \$36,000

Environment Computers: Those running under MS-DOS, XENIX, and UNIX operating systems. Main storage: not specified. Source language: Ryan-McFarland COBOL.

Description The ProfitKey system includes materials control, production control, shop floor control, capacity planning, quotations, costing, purchasing, and supporting financial.

A manufacturing and job shop control system, ProfitKey assists managers in scheduling development and production levels. The modular design provides various types of control and planning operations. The heart of the ProfitKey system is the job control module, which tracks all jobs through the shop. This module monitors production performance and costs and interfaces to inventory control, capacity planning, and scheduling modules to obtain required background information.

Compatibility Matrix: 219.0025.001

Features Matrix: 219.0030.001

MANDATA SYSTEMS

4434 Carver Woods Dr
Cincinnati OH 45242

(513) 791-6699

► Mandata Manage 2000

A manufacturing enterprise management package

Price Approximately \$15,000

Environment Computers: Those running under the PICK operating system. Main storage: 256K bytes, 40M-byte Winchester disk required. Source language: BASIC.

Description The Mandata Manage 2000 system is composed of 13 modules: general ledger, accounts receivable, accounts payable, payroll, sales order processing, physical inventory, bills of material, purchasing inventory transactions, material requirements planning, work order costing, shop floor control, capacity requirements planning, and work centers routing.

The accounts payable module checks vendor invoices against purchase orders. The module gives reports on all purchase variations, projects cash flow requirements, prints and reconciles checkbooks, and automatically calculates payment dates following a user-defined aging policy. Accounts receivable processes invoices, debit/credit memos, and over-the-counter sales and cash receipts, and provides a sales journal. The module also prints statements and aging reports. The bills-of-material module maintains product data from raw materials to purchased parts and finished goods. It also provides printed bills as required. The capacity requirements planning module allocates actual and planned production and reports any potential bottlenecks and over- or underload conditions. The general ledger module allows multiple company accounts, receives postings from all modules, and produces trial balances, profit and loss statements, income statements, expense statements, and balance sheets. The inventory transactions module processes all inventory transactions and tracks inventory status for all parts; it also reports inventory movements and costs, ABC analysis, and obsolete or slow moving times. The material requirements planning module accepts forecasts and reduces them to shop and purchase orders using the on-hand and on-order quantities and dates. Payroll processes direct and indirect labor, applies deductions, and prints checks. The physical inventory module prints and reconciles tickets and provides inventory and general ledger adjustments and reports. Purchasing tracks open purchase orders, maintains histories, and prints purchase orders, overdue orders, and vendor performance reports. Shop floor control records and monitors the progress of shop orders and helps dispatch those orders using user-defined priorities. Sales order processing maintains customer and open-order data; it prints invoices and acknowledgements, packing slips and other shipping documents. Work centers routings provides resource data on routings, machinery, and tools. Work order costing maintains standard and current costs by using labor, materials and work load. The system also reports variances and work in process inventory costs.

Compatibility Matrix: 219.0025.001

Features Matrix: 219.0030.001



MCBA

2441 Honolulu Ave
Monterose CA 91020

(818) 957-2900

► Manufacturing System

An integrated manufacturing software system

Price Vendor declined to provide

Environment Computers: Those running under the XENIX, UNIX, PC-DOS, RM/COS, and MS-DOS operating systems. Main storage: 1,100K bytes, 10M-byte Winchester disk required, 20M-byte Winchester disk recommended. Source language: RM/COBOL.

Description The MCBA manufacturing package is a fully integrated system for the small to medium-sized business. The system is composed of 11 modules, which may be purchased separately: base material requirements planning, bill-of-material processor, customer order processing, full material requirements planning, inventory management, job costing, labor performance, purchase order and receiving, shop floor control, standard product costing, and standard product routing. The modules can run in a standalone mode as well as exist as an integrated system. Under the bill-of-material processor, the user creates product structures by specifying relationships between pairs of items in which one item, or component, is assembled with other components to create the other item, which is called a parent. The operation in which a component is used may be specified, allowing the system to determine the point on a routing at which a shortage should be filled. Customer order processing allows entry and processing of customer orders, with order entry and billing as two distinct functions. At the time of order, customer order processing checks the quantity of stocked items. With full material requirements planning (MRP) forecast orders can be entered into the system to project future end-item demand. Customer orders, forecast orders, and purchase orders can be combined to form a master schedule, which represents the overall manufacturing plan for a plant. The regenerate material plan determines the quantities of raw materials, components, and subassemblies required to support the master schedule. The user can specify whether to include or exclude items on order and items committed to customer orders and shop orders in the calculation of available inventory. The master schedule report can be printed in item-date or date-item sequence for selected product categories and specified ranges of item numbers and due dates. The exceptions report lists all orders that were tagged with exception flags during the regeneration process. Inventory management handles multiple warehouses and replenishes branch warehouses from a central warehouse. Statistical inventory management and forecasting is done for the distribution system as a whole. Job costing has separate tables for burden rate, job type, job status code, cost type, work center, department, labor grade, raw material, work in process, and finished goods/cost of goods sold. Multiple formats for job costing transactions are available to accommodate the various elements that make up job

costs. Material transactions record planned and actual material costs. Employee attendance data is maintained in the clock card transaction file of the labor performance module. This module allows for the entry of date, shift, clock-in and clock-out times, number of hours worked, and whether the employee is being paid on incentive. Pay can be recorded for employees who are on incentive for some jobs while being paid an hourly rate for others. Purchase order and receiving allows purchase order data to be entered and later released for printing. A purchase order can be kept on file until it is released by the user. With the shop floor control module, the user can create and modify shop orders, copy a bill of materials, or route a bill of materials if the bill-of-material processor or standard product routing module is installed. Changes can be made to create a unique shop bill and tailored routing. The cost master file of the standard product costing module is automatically created from the item master file in the inventory management module. Current item costs can be calculated automatically through cost buildup programs. The user can maintain tables for burden rates, cost types, labor grades, and raw material codes. Under standard product routing, primary and substitute routings for any product may be created by entering operations, tool specifications, and notes. All of the Manufacturing System's modules interface with MCBA's standard accounting software. Among the systemwide features is a print-spooling function. Any report generated by the system can be spooled to a disk file, and later reviewed and printed (beginning on any page within the report). Multilevel security allows 200 passwords with access restrictions at the file level by company.

Compatibility Matrix: 219.0025.001

Features Matrix: 219.0030.001

MCCULLOUGH AND ASSOCIATES

1401 N Jesse James Rd
Excelsior Springs MO 64024

(816) 637-8638

► MPAC

A manufacturing planning and control system for microcomputers

Price \$23,000

Environment Computers: Alpha Micro and IBM PC-XT microcomputers running under AMOS. Main storage: 64K bytes. Source language: Alpha BASIC.

Description MPAC features include menu-driven operation, order entry and invoicing, inventory control with product costing and open order reporting, bill of material with parts and usage lists, production control with work center loading, material tracking, and priority dispatching, bucketless, net-change material requirements planning considering required lead time, purchasing and receiving control, and fixed-asset depreciation.

MPAC is an integrated set of software modules used to apply automated production and inventory control techniques to various manufacturing operations. It features

bucketless, net-change material requirements planning and prioritized master production scheduling. MPAC combines manufacturing control functions with a full financial accounting system. Information from the purchasing, order entry, production control, and fixed-asset modules can be used to update the general ledger, accounts receivable, and accounts payable modules.

Compatibility Matrix: 219.0025.001
Features Matrix: 219.0030.001

MICROCOMPUTER CONSULTANTS

PO Box 1377
Davis CA 95617

(800) 824-5952
(916) 756-8104

► INMASS

An integrated manufacturing software series

Price \$3,600

Environment Computers: Those using the 8080 or 8086 family of processors and running under the CP/M, CP/M-86, MP/M, MP/M-86 and MS-DOS operating systems. Main storage: CP/M, 64K bytes; MP/M-II, 48K bytes per user plus one additional 30K-byte partition; CP/M-86, 256K bytes; MP/M-86, 96K bytes per user plus one additional 80K-byte partition; MS-DOS and PC-DOS, 128K bytes. 10M-byte Winchester disk required. Source language: PL/I-80.

Description INMASS is an integrated manufacturing package designed to assist in production and scheduling operations. The package consists of six modules: inventory control, bill of materials, purchase order, order entry, material requirements planning, and job costing. Job costing compares the estimated and actual costs of ongoing jobs. Separate budgets can be set up for each cost center in the system. Order entry provides online production and control of customer orders. As orders are entered into the system, the operator is notified of the availability of parts. Inventory control maintains a perpetual inventory. Reports include reorder, stock valuation, activity, price lists, physical inventory worksheets, bin labels, standard costing variation, spares usage, and ABC analysis. Costs are calculated by average, LIFO, FIFO, or standard cost methods. Bill of Materials creates and lists multiple-level bills of materials. It automatically updates the cost of assemblies to reflect changes in the cost of components, and encompasses labor, overhead, and other nonmaterial costs. Purchase order creates orders and monitors goods received. Orders can be listed by vendor or by item. Material requirements planning (MRP) brings together the information maintained by all the other modules. This module provides control of inventory balances, purchase orders, and production. The system also projects when inventory will be depleted and suggests reorder points. Demonstration disks of the system are available through Microcomputer Consultants. A toll free help line is provided for registered users of INMASS software.

Compatibility Matrix: 219.0025.001
Features Matrix: 219.0030.001

MICRO MANUFACTURING SYSTEMS

2600 Corporate Exchange Dr
Suite 190
Columbus OH 43229

(614) 895-0738

► MCS-3

An MRP system for small and medium-sized manufacturers

Price \$900-\$5,000

Environment Computers: TRS-80 Model II, Apple II and III, Xerox 820, Altos, and IBM Personal Computer. Main storage: 64K bytes. Source language: Microsoft BASIC; RM/COBOL.

Description Features include inventory control, materials resource planning, capacity planning, bill of materials, order entry, job costing, general ledger, accounts receivable, accounts payable, purchasing, shop-floor control, and customer order entry.

MCS-3 is a completely integrated manufacturing inventory control system for use on all microcomputers that support the Digital Research CP/M, CP/M-86, or MP/M; Tandy TRSDOS or TRSDOS-16; or UNITY or OASIS operating systems.

Compatibility Matrix: 219.0025.001
Features Matrix: 219.0030.001

MIDWEST COMPUTER CENTER

5785 Merle Hay Rd
Johnston IA 50131

(515) 276-3387

► BOMP

A bill-of-material processor for microcomputers

Price \$995 purchase

Environment Computers: any microcomputer running under CP/M. Main storage: 64K bytes. Source language: Microsoft FORTRAN-80.

Description BOMP generates material requirements reports, determining the quantity and cost of each part needed for end-item stock levels. The system traces all bills of material requiring BOMP specific parts and reports on total cost to build end item, broken down by in-stock and on-order parts. Bills of material include total labor hours required for completion. Material lists of up to 3,200 items per diskette are produced.

BOMP maintains standard lists of material required for generating inventory order items. BOMP is designed for single-level material list processing, with each line item on a bill of material coded as a standard inventory part.

BOMP uses the inventory list maintained by the Midwest Computer Center Inventory Management System to obtain part descriptions and generate material order requirements. More detailed labor costing can also be



implemented through the Midwest Computer Center Job Costing program.

Compatibility Matrix: 219.0025.001
Features Matrix: 219.0030.001

NEOTERIC COMPUTER SYSTEMS

3 Seabrook Court
 Stony Brook NY 11760

(516) 751-4277

► Manufacturing Inventory—MRP

A materials inventory control program

Price \$2,995

Environment Computers: IBM Personal Computer; Tandy TRS-80; Apple II+; any microcomputer running under CP/M, MS-DOS, XENIX, or TRSDOS. Main storage: 48K bytes. Source language: BASIC, Assembler.

Description MRP reserves material for production and lists material for restock according to bill of material. The system stores up to 10 open purchase orders per part and allows the manufacturer to perform operations on selected parts before assembly. MRP produces monthly material requirements and production schedule reports and includes spreadsheet capabilities.

Manufacturing Inventory—MRP can be used as a parts inventory program as well as for general manufacturing inventory. Its product file contains information on individual component parts as well as on period sales to date and production forecasts.

Compatibility Matrix: 219.0025.001
Features Matrix: 219.0030.001

PRODUCTION SYSTEMS

410 Macklyn Ave
 Santa Rosa CA 95405

(707) 526-1294

► Manufacturing Control System

An integrated system designed for small to medium-sized fabrication and assembly-type manufacturers

Price \$3,770 for single-user systems; \$5,420 for multi-user systems

Environment Computers: Those running under CP/M, CP/M-86, PC-DOS, or MS-DOS operating systems. Main storage: 128K bytes, 10M-byte Winchester disk required. Source language: compiled CBASIC.

Description The Manufacturing Control System is a series of seven modules which can be purchased separately and run in a standalone mode. The package consists of the following modules: bill of material, inventory management, sales order processing, material requirements planning, purchasing, shop floor control, and cost control. The bill-of-material module maintains information on how products are assembled and what materials should be used in their manufacture. A single maintenance transaction may be designed to affect more

than one parent assembly (e.g., to add, change, delete or replace a component wherever it appears in the bill of material file) or on a phased basis. The inventory management module performs the recordkeeping functions for both finished goods and raw material inventory. The module maintains current balances, records the flow of materials through the various staging areas, and posts sales demand history. The module features stock status and shortage reporting, stock and work-in-process inventory valuation, standard cost updating and inventory revaluation, ABC reports, cycle counting, and multiple stacking locations. The sales order processing module maintains the status of orders from online entries of order data, shop floor issues, and shipments. It generates sales history entries when orders are closed and data for sales reporting. The material requirements planning (MRP) module operates in a regenerative mode to produce a time-phased material requirements plan by item. The process selects either master schedule or customer order requirements that fall due in the user-specified processing cycle period. The purchasing module maintains the status of open purchase orders along with vendor pricing and historical data. Inventory balances and current costs are automatically updated through the entry of purchase order, receipt, inspection, and vendor invoice data. The module produces reports on open orders to assist in the projection of cash flow requirements. The shop floor control module provides information for scheduling, monitoring, and controlling manufacturing operations. Shop order requirements are assigned operations and routings to determine capacity requirements. The cost control module uses data from other modules to determine current costs for fabricated parts, assemblies, and end products. It maintains current and standard costs. Standard costs are updated from reported labor and purchase orders, or directly from manual cost entries. Additional features of this module include development of standard labor hours and current costs, work order costing, job costing, and product costing. Options for selective product costing are available.

Compatibility Matrix: 219.0025.001
Features Matrix: 219.0030.001

PROFESSIONAL BUSINESS COMPUTER SYSTEMS

10215 N Scottsdale Rd
 Scottsdale AZ 85253

(602) 948-5772

► Distributor System

An integrated accounting system for distributors and manufacturers

Price Vendor declined to provide

Environment Computers: Those operating under UNIX. Main storage: 512K bytes. Source language: COBOL, ORACLE.

Description The Distributor System features accounts payable, including online vendor inquiry, cash requirements, flexible payment selection, and check writing

(multistate, multirate payroll check writing with employee earnings), departmental analysis, and quarterly and annual reports.

The Distributor System is an overall accounting system of selected Professional Business Computer Systems programs, including accounts payable, accounts receivable, and payroll check writing.

Compatibility Matrix: 219.0025.001
Features Matrix: 219.0030.001

TCS SOFTWARE

3209 Fondren Rd
Houston TX 77063

(713) 977-7505

► TCS TOTAL MATERIALS

An inventory control package for small- to medium-sized manufacturing businesses

Price \$795

Environment Computers: any microcomputer operating under CP/M or MS-DOS. Main storage: 64K bytes for 8-bit machines; 128K bytes for 16-bit machines. Source language: BASIC.

Description TOTAL MATERIALS will record current inventory levels on an item-by-item basis and maintain a multilevel assembly file with full cost breakdown at each level. The system automatically updates inventory items as assemblies and finished goods are produced and assists in materials requirements planning and purchasing. TOTAL MATERIALS will also generate bill of materials for finished products and automatically update costs of assemblies and finished goods as costs of inventory parts change.

TCS TOTAL MATERIALS can be used as a standalone module or interfaced with other accounting systems. TOTAL MATERIALS, combined with other modules of the TCS TOTAL ACCOUNTING SYSTEM, provides the user with an integrated accounting system.

Compatibility Matrix: 219.0025.002
Features Matrix: 219.0030.002

TIPNIS INC

10815 Indeco Dr
Cincinnati OH 45241

(513) 791-3805

► ESTIMATION

A turnkey job shop estimating system

Price \$2,900

Environment Computers: Apple II, IBM Personal Computer. Main storage: 48K bytes (Apple); 512K bytes (IBM). Source language: CBASIC, UCSD Pascal.

Description ESTIMATION software systems are specially designed for job shops in the metal-working industry. Each system consists of numerous modules linked to a common data base containing specific information on machines, tools, work material, labor rates, and other cost data applicable to the user's job shop. In addition, each software system is designed with screen prompts that lead the user through a step-by-step procedure. All ESTIMATION systems are provided with access security, which allows only authorized user personnel to interface with the system.

mation on machines, tools, work material, labor rates, and other cost data applicable to the user's job shop. In addition, each software system is designed with screen prompts that lead the user through a step-by-step procedure. All ESTIMATION systems are provided with access security, which allows only authorized user personnel to interface with the system.

Compatibility Matrix: 219.0025.002
Features Matrix: 219.0030.002

VIEWMANN CORP

451 Andover St
North Andover MA 01845

(617) 689-3404

► Project Management System

Aids in planning projects and monitoring the progress of each activity

Price \$2,995 purchase

Environment Computers: microcomputers running under CP/M, MP/M, PC DOS. Main storage: 64K bytes. Source language: COBOL.

Description Project Management System provides line-of-balance, job cost, and status reports. The system reports original and current estimates and compares actual and estimated schedules.

Project Management System provides line-of-balance reports on a continuing basis as needed. Complete job cost and status reporting are provided in an online mode. Latest estimates are reported with original estimates, as well as balance to complete and percent actually completed versus percent planned complete, for each labor and material item.

Compatibility Matrix: 219.0025.002
Features Matrix: 219.0030.002